

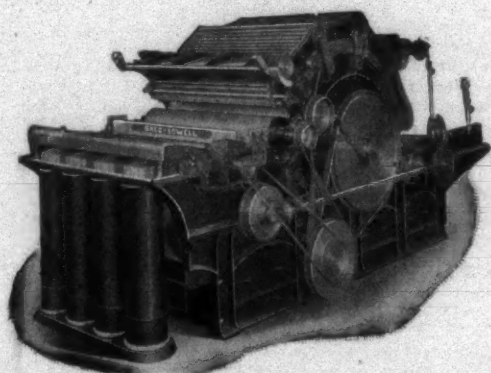
CONVENTION NUMBER
SOUTHERN
TEXTILE BULLETIN

VOL. X

CHARLOTTE, N. C., NOVEMBER 4, 1915

NUMBER 10

SACO-LOWELL SHOPS



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Complete Waste
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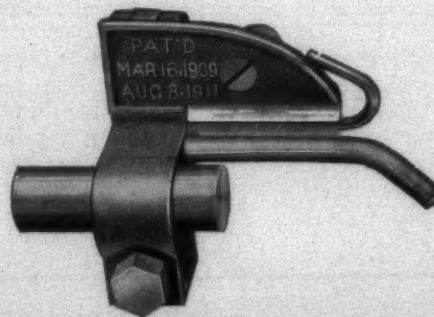
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Over the leather system before placing orders for new machinery, or if contemplating an increase in production, have them applied to their old machinery. It is applied successfully to the following carding room machinery:

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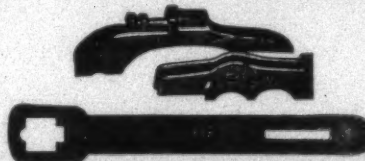
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Impractical, Unmechanical
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 Features—takes care of the overflow
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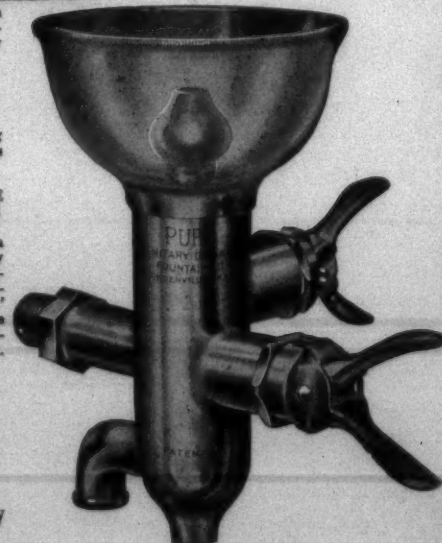
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Actual Size 7" High

SOUTHERN TEXTILE BULLETIN

VOLUME X

CHARLOTTE, N. C., NOVEMBER 4, 1915

NUMBER 10

PRESIDENT'S ADDRESS

By W. M. SHERARD, President of the Southern Textile Association.

Members and Guests of the Southern Textile Association:

In assuming for the first time the duties of presiding officer of this Association, I wish to express again my sincere appreciation of the honor you have done me in naming me your President. I know of no body of men engaged in any line of business who are in a position to accomplish more in the way of substantial progress and moral up-lift than the Southern Textile Association, and I esteem it a rare privilege to have been chosen head of this great organization and to contribute some share to the splendid work it is doing.

It warms my heart to look upon this great gathering of textile workers and their friends, and I can assure you that no more appropriate place in the entire South could have been chosen for this meeting than the City of Greenville. The natural advantages of Greenville, together with the high type of progressive and enterprising business men, and the beautiful, cultured and refined women, makes the place doubly attractive, not only in a local way but to the entire Piedmont section, as well as thousands of visitors from many different states, who have the pleasure from time to time of stopping in this city. Greenville is, in truth, the South's textile center, the hub of a vast wheel of textile development.

Within a radius of forty miles of this thriving city, there are 2,500,000 spindles; within a radius of one hundred miles 7,000,000 spindles; and everywhere around it, in cotton mills and various enterprises, we hear the ceaseless hum of industrial progress and improvement.

Our Association, as it gathers strength and experience from year to year, is in a position more and more to do valuable constructive work, which should center in the main about two great ideas; first, the increase of efficiency among our co-workers in the mills; second, a general movement of up-lift such as is done in welfare work and similar agencies. Increased efficiency can not well be brought about without some effort made at the same time to stir to vigorous life the community spirit through welfare work, and there can be no material progress in the simple economics and hygiene of the house and home without at the same time promoting the efficiency of the employee.

The point I desire to make is that the two ideas go together, and so closely akin are they that one can not be attempted with the hope of the best results without bringing in the other.

No cotton mill of any size could possibly make a mistake, in my judgement, by employing a first-class supervisor of welfare work to teach household economy, better ways of sanitation, the value of winter gardens, and all the other methods that have proven by the test of commonsense and experience valuable aids in preventing waste and in promoting the health, wealth and happiness of the community.

Everywhere, in practical attempts to improve conditions, what is termed the "community spirit" lies at the very bottom of all success. When a community is once aroused and interested in the activities of these welfare organizations, the people are brought together upon terms of closer intimacy; petty differences are removed; a generous rivalry is created, which stirs to action the best impulses of the old and young; the cause of education is stimulated; savings accounts are started; homes are made happier; sanitary conditions are improved; waste is prevented; and in all, every person connected with the mill, from the doffer boy to the president, becomes more efficient and a more contented worker. Community work of this sort long ago passed the experimental stage. It is a pronounced success where it is managed by leaders who are capable and who have a real bond of sympathy and interest with those with whom they labor.

But, inefficiently managed or conducted without a feeling of sympathy between leader and pupil, the money spent on it is worse than wasted. To accomplish results worth while, the superintendent and his assistants should be vitally concerned in its success, and, if they will do their full duty in a spirit of ungrudging service, the results obtained will repay them a hundred-fold for the time and the thought they give it.

At this time I will not touch upon particular ways and means of raising the efficiency of those who work for us and with us, because the proper treatment of a subject so vital to the success of all business, from the smallest shop to the largest manufacturing enterprises in the land, would involve an end-

less discussion of method and system, of mutual sympathy and interest, of local conditions and local equipment, of the relations that should exist between employer and employee; but I firmly believe that the first step in the direction of gaining efficiency is to be found in the welfare work of which I have already spoken.

Try it for yourself, and then you will certainly be convinced of its value to your community.

The business of cotton manufacturing, as it affects the interests of both operative and owner, has been unduly disturbed in recent years by impractical social reformers and selfish agitators. The Southern mills have been the target of abuse for well-meaning but misguided people who make flying trips in Pullman cars to our section and get all their information second-hand. Much hurtful misrepresentation, as a result, has found its way into public prints, and the Southern mills have had to stand indicted before the world for offenses they have never dreamed of committing. In many instances these so-called reformers and agitators have been selected from among that class of people who have an elastic conscience—one that will stretch to suit their particular work—that of misrepresenting the actual conditions existing among the manufacturing enterprises of this section of country. Most of these attacks upon the mills have had as their excuse so-called violations of child labor laws. Now there is no disposition among mill workers and employers in the South to break the statutes governing child labor or any other statute for that matter, and I believe that you could rake our Southern manufacturing states with the fine comb of the law and you could hardly find a responsible mill man, having the welfare of the mill people honestly at heart, who would of his own volition employ a child of tender years under the age limit fixed by law. Conditions are such that children between the ages of twelve to fifteen years are employed by the mills, not because they prefer their labor, but for the protection and welfare of the children themselves. I hope to see conditions speedily change. I hope to see the day come when there will be on children under fifteen years of age in the mills or any other kind of manufacturing establishment, for child labor is certainly not cheap labor

as the professional meddlers would have the public believe, and these children ought to be receiving, in good public schools provided for them, the training and experience they need for their life work. All lasting reforms must be preceded by common sense. It is easy enough to put the horse before the cart, but the resulting motion will be backward instead of forward. When compulsory education becomes general over the Southern manufacturing states, and above all is enforced sensibly and uniformly, then it will be the right and proper thing to raise the age limit by legislation. But, I repeat, until we are ready for it—until the soil has been prepared for the seed by giving the children adequate schools and making them attend—it would be the height of human folly to turn them out of doors where many of them would certainly fall victims of idleness and crime.

In this connection, I think it is worth while to call the attention of the Association to the Palmer bill now pending before the Senate of the United States. Last year it passed the lower house of Congress by a large majority. It has strong and influential backers, men and women of undoubted ability and resourcefulness, and the bill will become a law unless our Southern representatives are urged to get busy and present to their fellow-members in the national legislative body the real conditions that the enactment of this measure into law will produce here in most of our states. The Palmer bill fixes the age limit at sixteen years. It imposes a heavy fine or imprisonment on any manufacturer or dealer who ships or delivers for shipment in interstate commerce products that have been made in whole or in part by children under sixteen years of age, and each shipment is made a separate and distinct offense.

Such an act, if passed at this time would be the means of depriving hundreds of widowed mothers and children of an opportunity to better their conditions. In fact, a large number of our best people would necessarily have to be placed in charitable institutions.

For some states, the Palmer bill, if enacted into law, should prove a very wise legislation. For other states, especially in the South where compulsory education has either been adopted or is loosely enforced,

(Continued on Page 27).

AROUND THE EXHIBITION HALL

The Exposition Opening.

With the blowing of all the factory whistles and the ringing of many bells the Southern Textile Exposition was opened at 9:30 a. m. Tuesday, and was immediately declared to be a great success.

More than 3,000 visitors, including 1,600 who paid admission, were received the first day and the attendance has been increasing steadily each day.

ation manufacturing twine harness. Several sets of high-grade twine harness were shown.

The **Guion Starch Company**, of Greenville, was on the same side and showed a large number of bags of starch. A very striking sign, "High-Grade Mill Starches," made with grains of corn, was suspended above the exhibit. V. Q. Guion was in charge, assisted by W. G. Shull and F. J. Beatty.

The long distance booth of the

assisted by G. L. Clifton, P. P. Bildeau, Jno. S. Waters and Frank K. Davis. Among the other Texas Company men who attended were W. F. Parish, Geo. R. Rowland, of New York; William Thompson of Norfolk; J. L. Pipkin of Greensboro, N. C., and D. A. Vann and W. E. Bradford, of Atlanta.

The entire middle section of the lower floor was occupied by **The Stafford Co.**, of Readville, Mass., who exhibited in operation three of their "Ideal Automatic" looms. One of these was on heavy drills, another on print cloths and the third on pillow tubing. The Stafford men present were G. P. Erhard and W. J. Heubel of Readville, Mass., and Fred H. White and F. C. Dunn of Charlotte, N. C.

The last section on the lower floor began with a very elaborate exhibit of **Warren Webster & Co.**, of Camden, N. J., and **Yarnell-Waring Co.**, of Philadelphia, showing a Webster-

the **Reeves Pulley Co.**, of Columbus, Ind., and showed numerous models of Reeves' variable speed, wood, split and ball bearing pulleys.

C. L. Irwin was in charge.

The last and largest space in this section was occupied by **H. W. Butterworth & Sons**, of Philadelphia. The feature was the Foxwell guider for feeding the cloth into the tenting machine with 20-foot automatic textile and Simpson winder. A. C. Freeman and Wm. S. Rowley were in charge of the exhibit.

At the end of the center section the **Cement Products Co.**, of Wilmington, N. C., exhibited portable septic tanks.

Second Floor.

Ascending the steps and starting at the extreme left the first exhibit was that of the **U. S. Bobbin & Shuttle Co.**, Providence, R. I. It was one of the most attractive in the hall, being beautifully finished and showing a large variety of bobbins, shut-



The Exhibition Hall.

It is no secret that the Exposition far exceeded the dreams of its promoters and is one of the most successful affairs of its kind ever held.

Chairman Robt. F. Bowe, and all the members of the Executive Committee were showered with commendations and praised by all who attended.

The Southern Textile Exposition was staged in one of the compartments of a standard mill construction building erected by the Piedmont & Northern Railway on Washington street, Greenville, S. C.

Three floors of the building were used, while the basement was utilized for the storing of packing cases. After all the space in the three floors was sold an arrangement was made for the second floor of five compartments in the rear and a passage-way constructed to connect them with the second floor of the main Exposition Hall.

Entering the Exposition Building on the first floor and turning to the right we found the offices of the Southern Textile Association with Secretary A. B. Carter in charge, assisted by his son.

The Bureau of Information and the offices of the Executive Committee of the Southern Textile Exposition were at the same place. Next to the offices was the stand of the Western Union Telegraph Co.

The first exhibit was that of the **Acme Loom Reed & Harness Co.**, of Greenville, S. C. The feature of this exhibit was a machine in oper-

Bell Telephone Co. came next with a very attractive young lady in charge.

Just across was the exhibit of the **General Electric Company**, showing two large motors and their latest design of four-frame ball-bearing drive, mounted on a patent steel frame built by the **Virginia Bridge & Iron Co.**, of Atlanta, Ga. Various other devices were shown.

The General Electric men present were Sidney B. Paine and C. A. Chase, Boston, Mass.; J. B. Waird, Lynn Factory, Mass.; W. J. Dornworth and W. A. Woolford, Baltimore, Md.; E. P. Coles, W. H. Wylie, Charlotte; D. W. Peabody, H. S. Roberts, H. W. Redding, A. F. Gates of Atlanta.

The exhibit of **Jones & Loughlin Steel Company** showed a great variety of steel products, including pulleys, shafting and structural iron. Milton G. Smith and A. G. New were in charge.

Next come the booth of the **Textile Manufacturers Journal** of New York, with Mr. Benz and Editor Carroll in charge.

The **Texas Company**, at the end of this section, had an unusually attractive exhibit. The feature was the star trade-mark of the company, made with electric lights and the outside being spear-shape oil containers, holding vari-colored oils. Below that were steps made of refined paraffin blocks, on which were placed about eighty products of the Texas Company. In charge of the exhibit was F. K. Dorrance,



Emmons Loom Harness Co.

Lea Heater Meter in operation, with the Lea V Notch recording meter. The apparatus was furnished with glass doors showing the operation of the heater and water flowing over the V notch. A larger scale dial was shown illustrating the principle of the Webster Modulation System of steam heating. The action syphon valve was shown by varying degrees of temperature in water. Full line of steam specialties were shown. The Lea V notch recorder is used on 96 per cent of all metres of like type in the world. The exhibit was in charge of E. G. Jay, Jr., W. F. Bilyeu and J. B. Dobson.

The **Charlotte Mfg. Co.**, in the next booth, had a card clothing machine in operation. The background of their exhibit was a very attractive sign printed in red, white and blue, with a loom reed as the center piece. In charge of the exhibit was Walter Pratt.

W. B. Pratt and A. H. Silvester were in charge.

The next space was occupied by

tles, skewers, spools, etc. A special feature was the round-eye shuttle, for rewound or reversible twist filling. New fibre-head spools were shown. Geo. F. Bahn was in charge. Geo. H. Wilson, treasurer, and J. Henry Thorpe, sales agent, were present from Providence, R. I.

The next space was occupied by **Chas. Lowinson**, of New York, with a very interesting exhibit of cloth-scales, yarn scales, pick glass and a wide assortment of testers. Chas. Lowinson was in charge.

The exhibit of **Emmons Loom Harness Co.**, in the next section, was the most beautiful and best arranged of the entire Exposition. The feature was a duck harness 172 inches long by 25 inches deep and a 172-in duck reed. The center of the multiplex cabinet was a section of metal block lice reeds. On one side were shown all kinds of reeds, including beaver reeds, dresser reeds, raifths, double combs, slasher combs, striking combs, silk reeds,

(Continued on Page 8).



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the guarantee of
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For MICHIGAN business refer to General Electric Company of Michigan, Detroit, Mich.
For TEXAS, OKLAHOMA and ARIZONA business refer to Southwest General Electric Company (formerly Hobson Electric Co.), Dallas, El Paso, Houston and Oklahoma City.
For CANADIAN business refer to Canadian General Electric Company, Ltd., Toronto, Ont.

Watch G-E-Motors Operate Southern Textile Exposition

A very fine example of the versatility of this company's textile motors is shown at the Southern Textile Exposition.

Notice how smoothly each exhibit is operated by the motor best fitted for the work.

These motors and their control equipment are but a few examples from our complete line covering every textile mill use. They are designed and designated by electrical engineers experienced in textile work.

Bulletin 48016, sent on request, contains illustrations featuring many representative installations of G-E motor drive.

General Electric Company

General Office: Schenectady, N. Y.

Among the Exhibitors Present

The following is an incomplete list of those representing the various concerns who had exhibits at the Southern Textile Exposition:

- C. L. Ashley, with Dary Ring Traveler Co.
 N. H. Alford, with Barber Colman Co.
 L. L. Arnold, with Cotton Publishing Co.
 J. L. Aronstan, with Gen. Fireproofing Co.
 Geo. Ashworth, with Ashworth Bros.
 Henry Ashworth, with Ashworth Bros.
 L. D. Armstrong, with Atherton Pin Grid Bar Co.
 W. I. Bullard, with E. H. Jacobs Mfg. Co.
 J. H. Bennis, with New York & New Jersey Lubricant Co.
 L. J. Bishop, with Dixie Packing Co.
 Chas. E. Brinley, with Amer. Pulley Co.
 W. H. Bigelow, with Ashworth Bros.
 J. M. Blanton, with Poe Hdw. & Supply Co.
 W. C. Boyd, with Southern Novelty Co.
 H. F. Bower, with Douglas Co.
 Jas. Brothers, with Lombard Iron Wks. & Supply Co.
 J. B. Brennen, with Amer. Mach. & Mfg. Co.
 Robt. F. Bowe, with Saco-Lowell Shops.
 H. M. Barney, with Graton & Knight Mfg. Co.
 Frederick H. Bishop, with Universal Winding Co.
 P. P. Bilodeau, with The Texas Co.
 F. J. Beatty, with Guion Starch Co.
 W. E. Bradford, with The Texas Co.
 W. F. Bilyen, with Warren Webster & Co.
 Geo. F. Bahan, with U. S. Bobbin & Shuttle Co.
 Randolph Bennett, with Wool & Cotton Reporter.
 R. A. Barrett, with Babcock & Wilcox Co.
 L. C. Bullington, with Westinghouse Elec. & Mfg. Co.
 Howard Butt, with Babcock & Wilcox Co.
 A. O. Buzzell, with J. H. Williams Co., Inc.
 B. H. Briston, with The Draper Company.
 Geo. Bird, with Bird, Wilcox Co.
 W. L. Blackwelder, with Wm. C. Robinson & Sons Co.
 W. A. Biggs, with Wm. C. Robinson & Sons Co.
 M. Burgin, with Wm. C. Robinson & Sons Co.
 F. F. Bahnson, with Normalair Co.
 J. L. Borden, with Utility Mfg. Co.
 C. A. Chase, with General Elec. Co.
 F. J. P. Cogswell, with Carolina Supply Co.
 E. P. Coles, with General Elec. Co.
 Hal Crossley, with Howard Bros. Mfg. Co.
 C. W. Coker, with Southern Novelty Co.
 Stuart W. Cramer, with Stuart W. Cramer.
 P. W. Castles, with Remington Type-writer Co.
 Frank A. Chase, with Litchfield Shuttle Co.
 Frank Comins, with Amer. Moistening Co.
 M. R. Casey, with Clinton Cam Co.
 H. C. Cole, with Saco-Lowell Shops.
 R. P. Champney, with Graton & Knight Mfg. Co.
 W. A. G. Clark, with U. S. Dept. of Commerce.
 G. L. Clifton, with The Texas Co.
 E. S. Christiansen, with Puro Sanitary Drinking Fountain Co.
 J. D. Cloudman, with The Draper Company.
 A. B. Carter, with Victor Shaw Ring Traveler Co.
 H. A. Coles, with Westinghouse Elec. & Mfg. Co.
 W. J. Dodsworth, with Gen. Elec. Co.
 P. E. Davidson, with Western Elec. Co.
 D. L. Darnell, with B. F. Goodrich Co.
 R. I. Dalton, with Stuart W. Cramer.
 C. C. Dawson, with Stuart W. Cramer.
 C. T. Daly, with Ensign Mfg. Co.
 Rogers W. Davis, with Saco-Lowell Shops.
 Prof. C. D. Doggett, with Textile Dept. Clemson College.
 Frank K. Davis, with The Texas Co.
 F. C. Dunn, with the Stafford Co.
 J. B. Dobson, with Warren Webster & Co.
 R. B. Davis, with The Draper Company.
 G. P. Erhard, with the Stafford Co.
 W. A. Emerson, with Westinghouse Elec. & Mfg. Co.
 A. C. Freeman, with H. W. Butterworth & Sons Co.
 J. N. Fisher, with Babcock & Wilcox Co.
 J. B. Fitch, with D. D. Felton Brush Co.
 R. J. Fritag, with Steel Heddle Mfg. Co.
 F. E. Foster, with The Draper Company.
 J. R. Fox, with Graton & Knight Mfg. Co.
 G. P. Foote, with Clipper Belt Lacer Co.
 E. T. Foster, with Foster Machine Co.
 J. A. Faatz, with Cling Surface Co.
 A. F. Giles, with Gen. Elec. Co.
 I. L. Griffin, with Douglas Company.
 J. W. Grayson, with National Scale Co.
 Geo. E. Goodwin, with Pyrene Mfg. Co.
 V. Q. Guion, with Guion Starch Co.
 John Gelzer, with Westinghouse Elec. & Mfg. Co.
 Geo. Gray, with Normalair Co.
 J. E. Hull, with Victor Shaw Ring Traveler Co.
 W. J. Henbel, with the Stafford Co.
 Edwin Howard, with Mason Machine Works.
 John Henderson, with Westinghouse Elec. & Mfg. Co.
 Ben F. Houston, with Wm. C. Robinson & Sons Co.
 Jno. E. Humphries, with Dary Ring Traveler Co.
 Floy Hughes, with Burroughes Adding Mch. Co.
 S. E. Harrison, with Barber Colman Co.

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We have made a study of the requirements of the industry and now manufacture special starches adapted to every requirement of cotton manufacture. Our brands of Textile Starches are the results of years of scientific investigation coupled with practical experience. We are prepared to study the requirements of mill and supply starches which will produce the best results at minimum prices.

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 D. D. Howard, with Keystone Fibre Co.
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 A. W. Harris, with Amer. Warp Drawing Mach. Co.
 C. L. Irwin, Reaves Pulley Co.
 Ed. Isenhour, with Ashworth Bros.
 G. C. Illingsworth, with Murphy Iron Works.
 Alonzo Iler, with L. R. Wattles & Co.
 Wm. Hayes, with The Draper Company.
 Jack Iler, with Kever Starch Co.
 A. L. Jenkins, with Emmons Loom Harness Co.
 E. G. Jay, Jr., with Yarnell Waring Co.
 J. D. Johnston, with Amer. Moistening Co.
 H. C. Jones, with Saco-Lowell Shops.
 W. F. Kimball, with New York & New Jersey Lubricant Co.
 A. Kasperon, with Howard Bros. Mfg. Co.
 W. M. Kendrick, with A. W. Harris Oil Co.
 A. G. Kennedy, with Clinton Cam Co.
 Karl Kologiski, with Keystone Lubricating Co.
 Karl Kologiski, Jr., with Keystone Lubricating Co.
 Wm. Kalaber, with Amer. Kron Scale Co.
 J. H. Lamb, with Bird, Wilcox Co.
 Chas. Lowinson, with Chas. Lowinson.
 S. C. Leslie, with Leslie Loom Reed and Harness Co.
 James Leslie, with Leslie Loom Reed and Harness Co.
 W. E. Lotspeich, with Western Elec. Co.
 J. L. Lawrence, Jr., with Gen. Fireproofing Co.
 Geo. A. Litchfield, with Litchfield Shuttle Co.
 Frank C. Litchfield, with Litchfield Shuttle Co.
 Emile LeClair, with Amer. Warp Drawing Mach. Co.
 E. B. Meyer, with Burroughs Adding Mch. Co.
 Albert Milnow, with Westinghouse Elec. & Mfg. Co.
 Geo. M. Miller, with Wm. C. Robinson & Sons Co.
 Jno. A. McPherson, with J. E. Serrine.
 Jas. H. Maxwell, with Kever Starch Co.
 H. C. Mimms, with Pyrene Mfg. Co.
 R. E. McCausland, with Barber Colman Co.
 Geo. McNider, with Corn Products Refining Co.
 Guy Mecher, with New York & New Jersey Lubricant Co.
 Herbert Midgley, with Howard Bros. Mfg. Co.
 A. L. Mullaby, with National Aniline & Chem. Co.
 Henry Metz, with National Aniline & Chem. Co.
 W. H. McCall, with Southern Novelty Co.
 P. L. McCall, with Southern Novelty Co.
 Fred F. Martin, with Mossberg Wrench Co.
 R. G. Marr, with McNaughton Grate Bar Co.
 W. D. McLoud, with Alexander Bros.
 C. W. McSwain, with Textile Dept. Clemson College.
 C. F. Marble, with Curtis & Marble Machine Co.
 E. H. Marble, with Curtis & Marble Machine Co.
 J. F. McKee, with Gen. Fire Ex. Co.
 J. R. McDowell, with Amer. Mach. & Mfg. Co.
 Guy Melchor, with Jos. Sykes Bros.
 J. L. Nierskirk, with Leatheroid Mfg. Co.
 A. M. Norris, with Norris Bros.
 L. C. Nichols, with Weston Electrical Instrument Co.
 O. E. Nutter, with Saco-Lowell Shops.
 A. G. New, with Jones & Laughlin Steel Co.
 Jonas Northrop, with Hopedale Mfg. Co.
 E. K. O'Brien, with B. F. Goodrich Co.
 J. W. Oultz, with Saco-Lowell Shops.
 H. S. Osgood, with The Draper Company.
 J. J. Ovinger, with Searchlight Co.
 J. S. Palmer, with U. S. Gutta Percha Paint Co.
 D. D. Peete, with Burroughs Adding Mch. Co.
 Walter Pratt, with Charlotte Mfg. Co.
 R. W. Poole, with The Draper Company.
 S. T. Packard, with Dana S. Courtenay Co.
 J. G. Patterson, with Graton & Knight.
 D. W. Peabody, with Gen. Elec. Co.
 H. Parks, with Western Elec. Co.
 J. A. Patch, with Suspension Bearing Co.
 W. H. Porcher, with Stuart W. Cramer.
 J. F. Porter, with Amer. Moistening Co.
 J. G. Patterson, with Graton & Knight Mfg. Co.
 W. F. Parish, with The Texas Co.
 J. L. Pipkin, with The Texas Co.
 B. B. Pope, with International Acheson Graphite Co.
 J. C. Rasbury, with Searchlight Co.
 J. Kirk Rowell, with Amer. Kron Scale Co.
 Wm. S. Rowley, with H. W. Butterworth & Sons Co.
 Geo. R. Rowland, with The Texas Co.
 Geo. R. Rowland, with The Texas Co.
 Albert Rose, with J. E. Serrine.
 S. R. Riley, with J. E. Serrine.
 Carl Rasch, with Barber Colman Co.
 W. C. Robinson, with Wm. C. Robinson & Sons Co.
 L. B. Rogers, with Leatheroid Mfg. Co.
 H. S. Roberts, with Gen. Elec. Co.
 H. B. Rodgers, with Stuart W. Cramer.

(Continued on Page 27).

PUBLIC SALE

In LIQUIDATION

The entire plant and property of
the Hope Mills Manufacturing Company

situate at Hope Mills, Cumberland County, North Carolina, consisting of Mill No. 1, a two-story brick building, with a water power of about 300 horse power; Mill No. 2, a two-story brick building, with a water power of about 500 horse power; Mill No. 3, a two-story brick building, with a water power of about 90 horse power; Mill No. 4, a two-story brick building, with 250 steam horse power; two superintendents' houses; 268 tenant houses from two to four rooms; 14,000 spindles, with the necessary belting, shafts, machinery and equipment, and 1563 acres of land, including the land on which the above improvements are located,

will be sold to the highest bidder at
public auction on Wednesday,
November 10th, 1915,

on the steps of the Court House, in FAYETTEVILLE, NORTH CAROLINA, at 10 o'clock, a.m. The property will be sold clear of all encumbrances, and will be offered first as an entirety, and then in parcels, the real estate to be sold as one parcel, and the looms, spindles, shafting, and all machinery and fixtures as a separate parcel, the best aggregate price to be accepted.

A deposit of five thousand dollars (\$5,000) in cash, or its equivalent, will be required at the time of sale, if the property is purchased as an entirety, or if purchased in parcels a deposit of \$3000 will be required for the real estate, and \$2000 for the machinery and fixtures.

By order of the Board of Directors.

Hope Mills Manufacturing Company

Further particulars can be obtained from

W. J. BEATTIE, JR., Secretary,

Hope Mills, N. C.

Around the Exposition Hall.

(Continued from Page 4).

cotton reeds, light duck reeds, woolen reeds, felt reeds, corduroy and plush reeds, heavy duck reeds, light duck reeds, plucked reeds selvage reeds, double reeds, cross reeds, and V reeds. On the other side were cable twine harness, 4-ply harness, harness shafts, harness eyes and hooks of every description, swrem eyes, special harness for silk, silk harness, mail eye-harness, for ducks, mail jacquard heddles, mail

amount of their boilers that are in use. The Babcock & Wilcox water tube boilers need no introduction to Southern mill men by whom they have long been used. R. A. Barrett, district sales manager, Howard Butt and J. N. Fisher, with headquarters in Atlanta, were in charge of the exhibit.

The last exhibit in this section was that of **J. H. Williams & Co.**, of Millburg, Mass. They showed hand-threading shuttles for plain and fancy looms, German and domestic

Cooper & Griffith, cotton dealers of Greenville, S. C., had a booth and furnished cotton quotations.

The next space was occupied by **Westinghouse**. They showed new steel frame textile type motors, individual loom motors, conduit wiring switches, geared turbine lighting units and mill type lamps. They were furnished free of charge to eighteen or more exhibitors the motors with which they operated their exhibits. W. A. Emerson had charge, assisted by Mr. Reed, publicity manager Westinghouse Lamp Co., of New York; Mr. Binford, district manager Westinghouse Lamp Co., at Atlanta; D. Wiley, manager textile department, East Pittsburg, Pa.; John Gelzer, assistant Atlanta manager; John Henderson, special textile representative, East Pittsburg, Pa.; Albert Milmow, textile department, Charlotte, N. C.; L. C. Bullington, manager prime mover department, Atlanta; H. A. Coles, district manager, Atlanta, and Mr. Long, of Westinghouse Lamp Co.

double-speed doublers in operation. The capacity of this machine was a surprise to those who examined it. Fred Jackson of Charlotte, was in charge. Frederick H. Bishop, secretary, was present from the Boston office.

The **Victor Shaw Ring Traveler Co.**, of Providence, R. I., had one of the most unique exhibits in the hall. An old-time negro woman was shown operating a spinning wheel of sixty years ago, and making yarns. A large assortment of Victor Shaw travelers were shown. J. E. Hull of Providence, was in charge, assisted by Southern representative A. B. Carter.

J. E. Sirrine, the well-known mill engineer of Greenville, occupied the next booth and showed photographs of some of the mills he had designed. J. E. Sirrine was in charge, assisted by Alex. Rose, Ben Wringley, S. R. Riley and Jno. A. McPherson.



Saco-Lowell Shops.

harness, mail jacquard heddles, two-harness locks, variety or raw twine, selvages, varnished cords, plain mending eyes, harness for warp drawing, false reeds, beamer and dresser hacks; also a large assortment of cotton twine harness. A. L. Jenkins, superintendent and assistant manager, of Lawrence, Mass., was in charge of the exhibit, assisted by Geo. F. Bahn, of Charlotte.

The next space was occupied by the **Wool & Cotton Reporter** of Boston, Mass. Randolph Bannett was in charge.

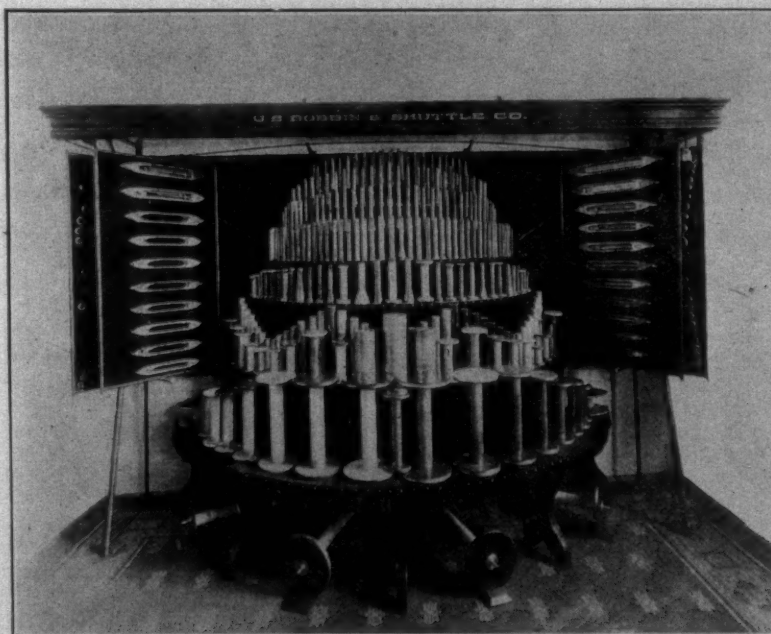
Leslie Loom Reed & Harness Co., of Charlotte, had an exhibit showing a wide variety of loom reeds.

Jas. Leslie and S. C. Leslie were in charge.

Babcock & Wilcox Co., of New York, exhibited two boiler models, a drum head complete, and an attractive set of signs showing the

wire heddles, special heddle frames for tape looms. They were especially featuring self-threading shuttles for Draper, Crompton & Knowles, and Hopedale Mfg. Co., automatic looms. Also showed fabric woven with their equipment. A. O. Buzzell was in charge.

In the next section the **Mason Machine Works** had a spinning frame and a loom in operation. The spinning frame was their latest model and is known as the "noiseless" frame. It was equipped with tape drive, special locking devices and many late improvements. The loom was equipped with the battery, filling change motion and templates of the **Hopedale Mfg. Co.**, of Milford, Mass. Edwin Howard, Southern agent, and Arthur Walsh were in charge of the exhibit with Jonas Northrop and D. M. Young, representing the Hopedale Mfg. Co.



U. S. Bobbin & Shuttle Co.

The two other booths in this section were occupied by the **Mill News** of Charlotte, and the **Textile Exhibitors Association**, of Boston, Mass., and on the other side was a lounging booth fitted up by the **Southern Power Co.**

The **Universal Winding Co.**, occupied the end of the middle section and showed one of their new No. 160

The **Keefer Starch Company** had a well-arranged booth, showing globes of their well-known Victor Mill Starch, in several forms, and also starch in bags. They also showed some handsome samples of goods which had been sized with their starch, including the ties made from Dunnean Mill goods. Jas. H.

(Continued on Page 12).

Ashworth Brothers, Inc.

Tempered and Side Ground Card Clothing

Tops Reclothed.

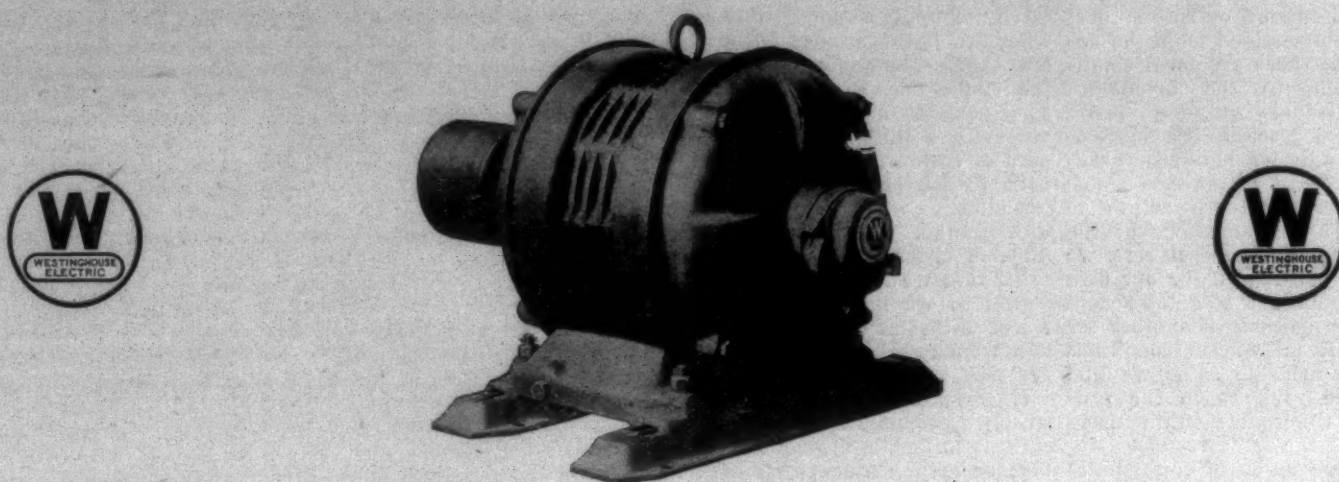
Lickerins Rewound.

Cotton Mill Machinery Repaired

12 to 18 West Fourth St., Charlotte, N. C.

240 River Street, Greenville, S. C.

127 Central Avenue, Atlanta, Ga.



Textile Power Requirements From Steam Supply to Motors MET BY Westinghouse Electric Service

Consider What We Can Supply You:

1. Complete power layouts for textile mills.
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American Bldg.

Points on Fine Yarn Manufacture

Chas. N. Poore Before Southern Textile Association

In the discussion of this subject it must be understood from the beginning that there are local conditions, peculiar to the layout of each individual spinning plant, which would preclude the successful duplication of methods, practices and results of another plant; and while it is certainly helpful to be guided by the methods of the more successful manufacturers, we must have due regard for our own peculiar conditions and not accept offhand the methods of another for our own. Even where conditions are very much the same we find considerable variance in the procedure of different manufacturers to arrive at the same results.

It is a realization of this particular fact that prompts me to mention as the first essential point in the manufacture of this product—a fair degree of diligence and self-confidence on the part of those who have this work under their supervision.

While we stop to think of it, there seem to be several right ways and innumerable wrong ways to manufacture fine yarns, and if we approach the problem in a confident manner we may feel assured of a certain degree of success, although we do not follow any particular set rule.

Since the cotton is usually the

salve we apply to our conscience, when we have gotten a little stale and things are going rather badly, the staple may properly be taken as a point of first importance and deserving a little emphasis. Shippers of cotton find it just about as hard to deliver every bale of cotton alike, as we do to deliver every thread alike. It is therefore necessary, in order to get the best results, that we learn as much about cotton as we have opportunity to learn, so that as we put it into process we may select our mixes to the best advantage.

It is better to staple the bales closely and run them through according to length, although the difference may not be great, than to take the bales as they come from the warehouse. Where a variance of half a grade or more exists, the lower grades may to advantage be run through the preparatory cleaning machines separately and afterwards blended on the finisher with high grades. This method will result in a cleaner finished lap than were these grades mixed on the floor, because in going through the preparatory machines some of the impurities freed from the lower grades find lodgment in the higher grades and are carried through to the finished work.

In preparing laps for fine yarns,

it is desirable to give the cotton just enough beatings to open it up from its matted condition. A good method is, after first putting through blowing system and automatic feeder, to pass through a Buckley Style Cylinder and finish through a carding beater. With this method the leaf is not pulverized and is more readily cleaned out by the lickerin of the card.

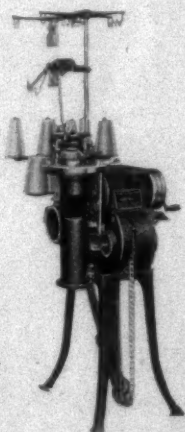
A word may be said here regarding the settings of carding beaters and lickerins. It is highly desirable to have this setting just close enough so as not to strike; and 1-8 inch for the beater and 10-1000 gauge for the lickerin and mote knives. Good results are thereby obtained and the stock is not damaged, unless a very thick lap is permitted, which is undesirable. There seems to be no reasonable cause for varying these settings for change in length of staple. The card draft for this class of work should be from 125 to 150.

To have clean work, the half lap and top comb of the combers must be kept in good condition by keeping the brush set up, so as to prevent the accumulation of waste on half laps, which destroys the needles and causes poor work, and it is not good economy to put off re-needling until imperfect work is noticeable.

Probably the hardest problem in fine yarn manufacture is the prevention and elimination of slubs and slugs. These may be classified in the following manner: Slubs are thick places in the stock proper; while slugs may be considered as bunches of fly and waste which are caught up by the ends in their passage through the different processes. If permitted to go out in the finished yarn a great deal of trouble is caused by breakage in knitting machines, or such other process as the yarns may be further subject to.

The most prolific source of the slub in the stock is top rollers and piecings of the ends. Too many leather rollers are kept running on roving machines after they have become so hollowed out that they fail to perform their proper function when a piecing from the preceding process comes under their action. It is not economy to get along with as little roller covering as possible, but on the contrary to keep them in the very best possible condition by taking them out just before they begin to produce imperfect work.

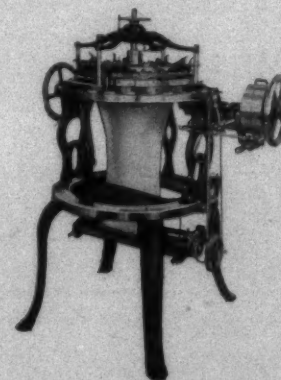
Slugs of the fly get into the product in numerous ways, but the top clearers are no doubt the greatest offenders. Frequent pickings of the clearers alone will not eliminate (Continued on Page 30).



1865-1915

For fifty years we have been building labor saving knitting machinery for hosiery and underwear.

Our latest machines will enable you to produce merchandise at the lowest possible cost.



Established 1865

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CLEVELAND, NEW ENGLAND BUILDING
CHICAGO, MARQUETTE BUILDING
CINCINNATI, O., TRACTION BUILDING
ATLANTA, CANDLER BUILDING
TUCSON, ARIZONA, SANTA RITA HOTEL BUILDING

NEW ORLEANS, 533 BARONNE STREET
DENVER, 435 SEVENTEENTH STREET
SALT LAKE CITY, 705-6 KEARNS BUILDING
SAN FRANCISCO, SHELDON BUILDING
LOS ANGELES, I. N. VAN NUYS BUILDING
SEATTLE, MUTUAL LIFE BUILDING
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SAN JUAN, PORTO RICO, ROYAL BANK BUILDING

Barberton, Ohio—WORKS—Bayonne, N. J.

Over 18,000,000 Horse Power of Boilers Installed Throughout the World
Over 125,000 Horse Power of Boilers Installed in the Cotton Industry in the South

GRAND PRIZE

Panama-Pacific International Exposition San Francisco

See our exhibit of Models and Boiler and Superheater parts at
space 203 and 204, second floor Southern Textile
Exposition, Greenville, S. C.,
November 2-6, 1915

Southern Sales Office

Candler Building, Atlanta, Georgia

Around the Exhibition Hall.

(Continued from Page 8.)

Maxwell was in charge, assisted by Jack Iler and Dan Wallace.

The booth of **Cotton Publishing Co.** was in charge of L. L. Arnold, assisted by J. T. White.

The **Corn Products Refining Co.** exhibited a series of samples showing the process of manufacture of corn starch and corn starch products. Another series showed different grades of starch, dextrine, corn syrup, and corn sugar. A

ber knotters was also shown. J. H. Spencer, of Greenville, and R. S. McCausland, of Rockford, Ill., were in charge, assisted by N. H. Alford, Carl Raset and S. E. Harrison.

The exhibit of **Steel Heddle Mfg. Co.**, of Philadelphia, had a very complete line of their well-known products. They called special attention to their double bar duplex harness, for weaving fine sley goods, and their "Universal" harness frame with patent slide hooks. They showed metal douds for weaving

The next booth was occupied by **E. H. Jacobs Mfg. Co.**, of Danielson, Conn., manufacturers of lug straps, loom pickers and loom strapping. Almost every form and size of these products were shown and the exhibit was very tastefully arranged. W. I. Bullard of Danielson, Conn., was present.

The **Toledo Scale Co.**, of Toledo, Ohio, had the next booth. A Toledo "no spring" platform scale was shown. A suspension scale with pan especially designed for weighing cotton laps was also shown.

The **U. S. Gutta Percha Paint Co.**, of Providence, R. I., featured Rice's Mill White, showing broads painted with same. They also had a small barrel of Mill White. J. S. Palmer was in charge.

The **Draper Company**, of Hopedale, Mass., occupied all of the fourth section on the second floor and had six looms in operation as follows:

One 36-inch E Model Loom, with large filling battery using coarse filling, and with large shuttle, on a heavy four-harness weave.

One 30-inch E Model Loom with steel harness stop-motion with Straw's patent feeler arrangement on a two-shade gingham weave.

One 36-inch P Model Loom with the largest size of shuttle, using very coarse filling, on a heavy four-harness weave.

One 36-inch K Model Loom on fancy goods, using twenty harness dobby.

One 90-inch L Model Broad Sheet- ing Loom making broad sheetings. One 40-inch E Model Loom with

double filling fork on a two shade narrow sheeting.

They also exhibited small ware, such as spindle rings and loom temples. The Draper men present were B. H. Bristow, assistant agent, and Mr. Osgood, a director from Hopedale, Mass., J. D. Cloudman, Southern agent, F. E. Foster, Chas. H. Warren, Wm. Haynes, R. W. Poole, P. T. Quinn, R. B. Davis and H. S. Smith.

The first on the last section was the exhibit of the **Puro Sanitary Drinking Fountain Co.**, of Haydenville, Mass. They showed Puro and the Puro Junior drinking fountains, their standards, and fountains especially adapted for schools, which had a special concave head which obviated the possibility of a child breaking its teeth when anyone strikes its head while drinking. They also had an ice cooling arrangement, consisting of a barrel with 120 feet of half-inch pipe to which a special Puro junior is attached with full arrangement for connecting the overflow to the sewer. E. S. Christiansen of Haydenville, Mass., was in charge.

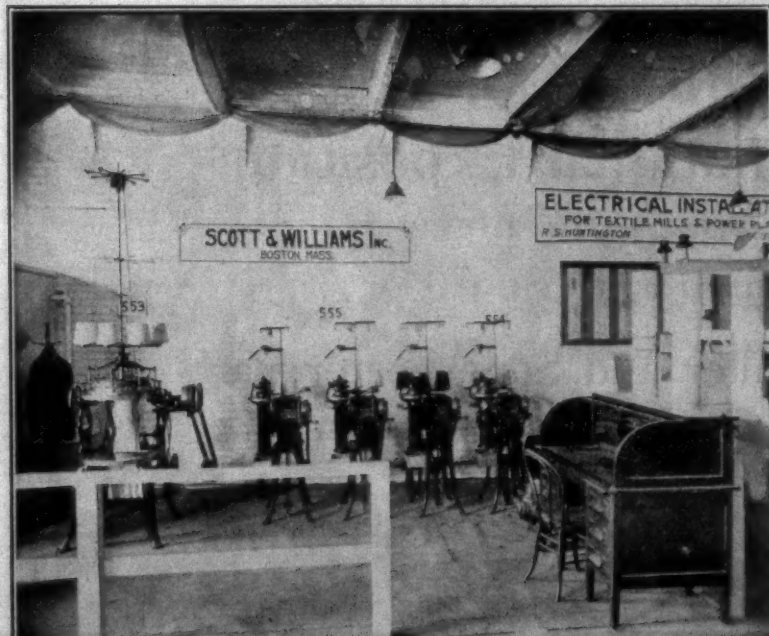
The **Dairy Ring Traveler Co.**, of Taunton, Mass., exhibited in the next booth a wide variety of ring travelers in boxes, which were arranged on steps. John E. Humphries was in charge, assisted by C. L. Ashley of Atlanta.

Pyrene Mfg. Co. had the adjoining space and a feature was a motor running submerged in the Pyrene liquid, showing the non-conductivity of the liquid. One hundred and twenty Pyrene extinguishers (Continued on Page 24.)



series of textile samples showed a variety of fabrics in the manufacture of Corn Products Refining Company starches were used. This series included every thing fabric from carpets to high-grade fine goods, such as light lawns. The exhibit was very attractively arranged. Dr. Geo. McNider was in charge,

lenos and a variety of heddles for use on jute bagging to the finest silks. They also featured nickel-plated drop wires, which could not rust. Hampton Smith, of Greenville, S. C., the Southern manager, was in charge. R. J. Fritag, sales manager, was present from the factory at Philadelphia.



assisted by Jno. R. White and A. G. Smith.

The end of this section was occupied by **Barber Colman Co.**, of Rockford, Ill. They showed a K Model warp-tying machine and striped ticking warp tied-in by one of their machines at the Griffin Mfg. Co., Griffin, Ga. A full line of Bar-

The next space on this side of the aisle was occupied by **L. R. Wattles Co.**, of Canton, Mass. They showed samples of their sizing compound in jars and distributed cards advertising their "Ma'Ni-OK" cotton softener. Alonzo Iler was in charge of the exhibit. A. S. Wattles of the home office, was present.

"Universal" Winding Machines

for filling for broad and narrow looms; cones for knitting; tubes for warps, wire covering, braiders, thread, twine, cord—specialties.



all products of this factory,
bear the shop mark
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UNIVERSAL WINDING COMPANY
BOSTON

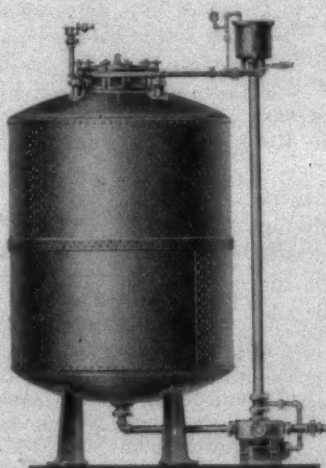
M A C H I N E R Y

for

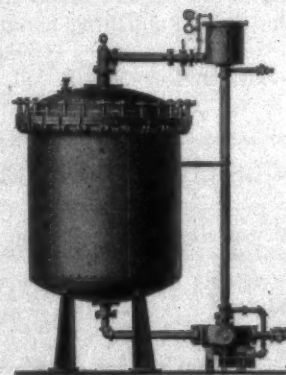
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Printing and Finishing

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Woven and Knit Goods, Yarns

RAW STOCK and LINTERS

The Textile Finishing Machinery Company

New York Office, 30 Church St.

PROVIDENCE, R. I.

SOUTHERN TEXTILE BULLETIN

Offices: Room 912 Realty Building, Charlotte, N. C.

Published Every Thursday By

Clark Publishing Company

DAVID CLARK, Managing Editor

D. H. HILL, Jr., Associate Editor

SUBSCRIPTION.

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Other countries in Postal Union.....	2.00
Single copies10

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Advertising rates furnished upon application.

Address all communications and make all drafts, checks and money orders payable to the Clark Publishing Company, Charlotte, N. C.

Entered as second class matter March 2nd, 1911, at the post office at Charlotte, N. C., under the Act of March 3d, 1879.

THURSDAY, NOVEMBER 4, 1915.

Sounds Like Prosperity.

A recent weekly report of the Bradstreet agency said:

"Save for a probably temporary setback to retail distribution caused by a spell of warm weather, progress in trade and industry continues in conspicuous proportions with even greater gains apparently in store.

"In the larger lines cumulative expansion is the chief characteristic; retail merchants show a stronger propensity to buy ahead; the steel trade goes on making ground; prices on some of finished products have been advanced, partly to keep buying within certain bounds; the long predicted scarcity of railway cars is an actual fact, a paucity of labor exists, payrolls are enlarging; weekly bank clearings are of unparalleled proportions; demand for money, the supply of which is plethoric at easy rates, is increasing, exports of wheat and flour for the current week established a new high record; export trade continues unprecedented, new enterprises are being launched more readily; real estate, long dormant, is reviving and farmers in the South are paying off old debts. Weekly bank clearings \$5,221,789,000."

We do not believe that more could be said in such a small space relative to prosperity.

The textile industry is receiving its share of the prosperity and the mills are busier than ever before.

The Southern Textile Field.

We are glad to have at Greenville this week so many men connected with the machinery and supply business of New England, because it will afford them an opportunity of getting a better idea of the great textile industry of the South.

While the cotton manufacturing industry of New England has practically stood still during the past five years and no appreciable increase in spindles has been shown, there has been an average annual increase of 500,000 spindles in the South, and we now have approximately 13,400,000 spindles in operation.

The check in the growth of the cotton manufacturing industry of the North has been largely due to labor troubles and to radical legislation enacted by the several States.

While the Southern States have not been immune from radical legislation they have not been afflicted as have the New England States, and the public has a very friendly feeling toward the cotton mills of our section.

The great advantage of the Southern mills is the lack of foreign labor. While New England mills are

filled with the scum and riff-raff of Europe, and some mills have to post their rules in ten different languages, there is but one race in the Southern mills and they all speak the English tongue.

The mill operatives of the South are pure-blooded Anglo-Saxons and they have no such anarchistic tendencies as seem to infest the immigrants from Southern Europe.

Because of this freedom from strife between the operatives and the mill owners the textile industry of the South is growing rapidly and offers the best market for the products of the machinery and supply houses of the North.

Millions of dollars are being spent each year for new mills and additions and when the expenditures for replacements and annual supply bills are considered the amounts reach a very high figure.

It is a rich field and those who would obtain such business should study carefully the people with whom they have to deal and the conditions which exist. They must learn that there is striking difference in the methods of securing business from Northern mills and those that are best to use in the South.

Most of the agents and managers of Northern mills were brought up in the business and therefore do not have to depend much upon the superintendents and overseers for advice when making purchases.

In the South very few of the secretaries and treasurers are practical men, as most of them have come from banks or mercantile establishments and it is therefore an almost universal custom to depend upon the practical men for advice when purchasing machinery or supplies.

As the recommendations of the superintendents and overseers very largely affect the purchases, they are the men whom it is most important to reach and the journals which they read are necessarily the best mediums.

In spite of all claims it is a fact that none of the Northern textile journals have more than a nominal circulation in the South. It is not because of any sectional feeling, for there is none, but the conditions and the type of employees in the two sections are radically different, and it is impossible for a journal to be so published as to suit both fields.

Reading matter suitable to one field would not be, in most cases, interesting to the other.

The South has a full supply of textile journals and all of them

have their subscribers and their followers.

We believe the Southern Textile Bulletin to be the best advertising medium for this field, not only by reason of its large circulation, but because it is closer to the mill men than any other.

Our New England friends who are in Greenville this week will be impressed with the opportunities for business in the South and when they go home will advise the "Boss" to go harder after this field.

We hope that they will inquire of the mill men and also advise the "Boss" that the Southern Textile Bulletin is the best advertising medium to use for this field.

Capitola Manufacturing Company

Marshall, N. C., Oct. 29, 1915.
Southern Textile Bulletin,
Charlotte, N. C.

Gentlemen: We note in this week's issue that "Mill Life" has suspended publication and also your statement that your own paper occupies first place in its field. You are better able to decide this than we are, but we can say that you certainly deserve that position, as it is very evident that you know how to give your subscribers what they want, and we get it every week.

Yours very truly,
M. L. Church, Treasurer.

An Opportune Time.

A mighty good time for a visit to Charlotte by some of the benevolent spirits of the National Child Labor Association would be while the flower carnivals at the different mill centers are in full swing. The contrast in dress, appearance and general conditions of the poor, down-trodden children with that of any gathering of mill people in the more enlightened territory over which this association takes jurisdiction, would be of a remarkable kind. Yet the brighter side of Southern cotton mill life is the very last thing these weepy-eyed philanthropists want to see.—Charlotte Observer.

German Textile Industry.

According to a report coming from a leading textile workers' official in Germany—through Switzerland—the textile workers are already feeling the pinch of the government prohibition of the manufacture of cotton and other textile fabrics. The working time in spinning mills has been reduced to 20 hours per week for those mills in which cotton is spun, and in the rest of the textile trade hours have been reduced to 50 per week. Cotton spinners work only Tuesday and Wednesday; for the rest of the week the mills are stopped. It is feared that the second year of war will mean great privation for the textile workers.—Cotton Factory Times of England.

Tire Fabric Manufacture

requires the greatest attention to detail of construction and general "Condition" in the different processes of its structure. For the **Standardizing** of such goods, a proper **Atmospheric Condition** is a necessary accessory.

The choice of a Humidifying System must be one that for simplicity with great capacity and economy in maintenance produces uniformly such conditions that may be determined for the different requirements of the work. In the **American Moistening Company's** method of humidifying, all such requirements are guaranteed, this system having been adopted by the following manufacturers of Tire Fabric:—

Connecticut Mills Co., Danielson, Conn.

Canadian-Conn. Cotton Mills, Ltd., Sherbrooke, P. Q.

Worcester Tire Fabric Co., Worcester, Mass.

Killingly Manufacturing Co., Killingly, Conn.

Bibb Manufacturing Co., Columbus, Ga.

Jenckes Spinning Company, Pawtucket, R. I.

Danielson Cotton Company, Danielson, Conn.

Brighton Mills, Passaic, N. J.

In addition to the above the following is a partial list of orders received during the **Last Six Months**:—

Chaplain Silk Mills

Klots Throwing Co.

Abbeville Cotton Mill

Jackson Fibre Co.

Floyd Cranska Co.

Hillside Cotton Mills

S. Slater & Sons, Inc.

W. A. Slater Mills

Knoxville Spinning Co.

Pepperell Mfg. Co.

Bates Mfg. Co.

Colored Worsted Mills

Bettie-Francis Cotton Mill

Schwarzenbach Huber Co.

James Lees & Sons

Grosvenor-Dale Co.

Midway Mills

Centredale Worsted Mills

Stafford Mills

W. H. Grundy & Co.

American Silk Spinning Co.

Gainesville Cotton Mills

Trion Company

Queen City Cotton Co.

Dana Warp Mills

Utica St. & Mohawk Val. Cot. Co.

Cheney Brothers

Dallas Cotton Mills

Victory Mfg. Co.

Nonquitt Spinning Co.

Crown Cotton Mills

Great Falls Mfg. Co.

Hamburger Cotton Mills

Central Mills

Dominion Textile Co., Ltd.

Argo Mills Co.

Tamarack Company

Gibson Mfg. Co.

Canisteo Silk Co.

D. Mackintosh & Sons Co.

Laurel Cotton Mills

Westville Spinning Company

Fellows-Huber Co.

Stonewall Cotton Mills

Onondaga Pottery Co.

Of the above equipments, in whole or in part, some are our Standard Atomizing or Compressed Air System; others are our regular Sectional Type of Humidifier, inclusive of Automatic Control; Conditioning Room equipments, etc.

American Moistening Company

WILLIAM FIRTH, Prest.

FRANK B. COMINS, Vice-Pres. and Treas.

120 Franklin Street, Boston, Mass.

JOHN HILL, Southern Representative, 1014 Healey Bldg., Atlanta, Ga.

SPRAY Engineering Co. **Cooling Systems**

Will Help You Hold YOUR Vacuum

Here are two cases in point, right here in the Southern Textile Field:

The F. W. Poe Mfg. Co., Greenville, S. C., has a cooling pond 200 ft. square, containing 2,000,000 gallons of water. The surface cooling obtained was wholly inadequate for the plant, which is equipped with 2,550 H. P. The water-temperature in the pond reached 140° in the summer, and the vacuum fell off to 18".

Since the installation of the Spray Cooling equipment, which has a capacity of 3,750 G. P. M. at 5 lb. pressure, there has been no difficulty in holding a vacuum of 26" or better right through the summer months.

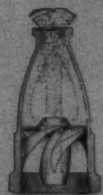


F. W. POE MFG. CO., GREENVILLE, S. C. — Cooling Pond.

Again—the Southern Power Co. used to cool condenser water at the 6,000-K. W. Greenville plant, in a pond several acres in extent. Even this large area was found insufficient—after a few days' operation, the temperature of the pond would rise to a point which afforded only a very low vacuum. Since our Spray System was installed the water is cooled from an average delivery temperature of 111° to a return temperature of 86°, with air at 84° and 90 percent relative humidity. No difficulty in maintaining a vacuum ranging from 27.3 to 28 inches continuously, week in and week out. The system handles 12,000 gallons of water per minute.

Our spray cooling system, besides the pond itself, consists of our patented bronze nozzles and the necessary special equipment for proper grouping of nozzles and drainage of system. Nothing to get out of order. Nothing to wear-out. No moving parts. Maintenance is practically nothing.

We assume the entire responsibility of design and construction. We guarantee operation under your particular conditions of service.



Write for descriptive literature

Spray Engineering Co.

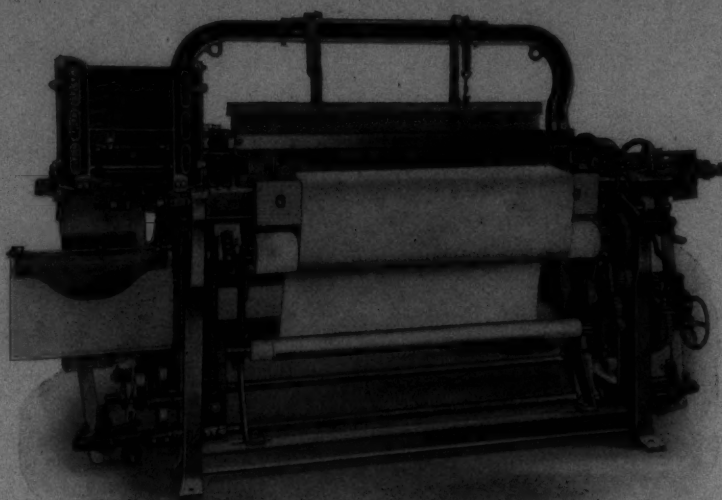
93 Federal Street, Boston, Mass.

Engineers

Manufacturers

REPRESENTATIVES

B. C. Donham & Co., New York City; H. F. Sanville, Philadelphia; H. A. Rapelye, Pittsburgh; Charles M. Howe, Chicago; J. S. Cothran, Charlotte; Earl F. Scott, Atlanta; R. G. Ferguson, Cleveland; A. W. Smith, Cincinnati; J. E. Kamps, Indianapolis; Baumes-McDevitt Mach'y Co., St. Louis; Power Equipment Co., Toledo; Merkle-Hines Mach'y Co., Kansas City; McClary-Jemison Mach'y Co., Birmingham; Charles C. Moore & Co., San Francisco, Los Angeles, Seattle, Salt Lake City, Portland, Tucson; A. M. Lockett & Co., New Orleans; Smith & Whitney, Dallas; Wm. H. Hale & Co., Minneapolis; Rudel-Belnap Mach'y Co., Montreal; Stearns-Rogers Mfg. Co., Denver; T. A. Williams, Salt Lake City; Randall-Lovegrove Co., Houston.



1915 MODEL PLAIN GOODS LOOM

Our Looms are running on cotton, woolen, worsted and silk yarns, and are producing the highest quality of goods at the lowest cost per yard

*Our 1915 model is the last word
in loom construction*

Catalogue sent upon request

The Stafford Company

Readville, Mass.

FRED H. WHITE, Southern Agent
CHARLOTTE, N. C.

TEXTILE STARCHES

FOR ALL USES

TO MEET EVERY REQUIREMENT

SUPERIOR

QUALITY—SERVICE

DOUGLAS COMPANY

MAKERS OF STARCH

CEDAR RAPIDS, IOWA

PERSONAL NEWS

J. H. Hull has resigned as superintendent of the Elberton (Ga.) Mfg. Co.

Z. M. Floyd of Pelham, Ga., is now superintendent of the Elberton (Ga.) Mfg. Co.

Ed. Haynes has resigned as second hand in spinning at the Pickett Mills, High Point, N. C.

J. L. Mattox of Fairmont, S. C., has accepted the position of overseer of spinning at the Ottaray Mills, Union, S. C.

J. L. Phillips of Danville, Va., has accepted the position of overseer of weaving at the Enoree (S. C.) Mfg. Co.

J. C. Prince has resigned as second hand in spinning at the Drayton Mills, Spartanburg, S. C., and is now located in Greenville.

Robert Long has been promoted from cotton weigher to paymaster at the Beaver Dam Mills, Edgefield, S. C.

A. H. Graham has resigned as overseer of spinning at the Golden Belt Mfg. Co., Durham, N. C., and will farm.

W. H. Brown of Greenville, S. C., has returned to his former position as second hand in spinning at the Pickett Cotton Mills, High Point, N. C.

J. C. Jolly has resigned as night overseer of spinning at the Prendergast (Tenn.) Cotton Mills, to become carder and spinner at the Pauline Mills, Kings Mountain, N. C.

W. W. Splawn, of the Judson Mills, Greenville, S. C., has accepted the position of second hand in spinning at the Drayton Mills, Spartanburg, S. C.

T. T. Goings has resigned as overseer of spinning at the Nakomis Mills, Lexington, N. C., and accepted a similar position at the Cowpens Mfg. Co., Cowpens, S. C.

J. L. Mattox of Fairmont, S. C., has accepted the position of overseer of spinning at the Ottaray Mills, Union, S. C.

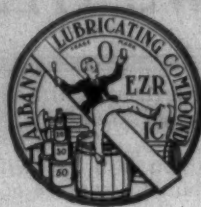
T. L. Rhodes, of the Panola Mills, Greenwood, S. C., is now second hand in the cloth room at the Ninety-Six (S. C.) Mills.

J. D. Turner has resigned his position at the Carolina Mill, Greenville, S. C., to become card grinder at the Camperdown Mills, of the same place.

A. A. Short has resigned as overseer of spinning at the Cowpens (S. C.) Mfg. Co., and accepted a similar position at the Golden Belt Mfg. Co., Durham, N. C.

J. S. Chaplin has resigned his position at the Panola Mill, Greenwood S. C., to become overseer of the cloth room at the Ninety-Six (S. C.) Mills.

Geo. D. Simpkins, overseer of spinning at the Poulan (Ga.) Mills, who has been unable to attend to his duties for some time, on account of ill health, has accepted a position as assistant overseer of spinning and twisting at the Manchester (Ga.) Mfg. Co. in hope of bettering his health.



Mill machinery is kept in better condition. Your goods are not ruined by drippings with

Albany Grease

Send for samples and cup now. No charge.

YOUR DEALER SELLS ALBANY GREASE

ALBANY LUBRICATING CO.
708-10 Washington St., New York

A. W. Faris has resigned as overseer of spinning at the Franklinville (N. C.) Cotton Mills, and accepted a similar position at the Oxford (N. C.) Cotton Mills.

Position Wanted.

By experienced man position as agent, or manager of Southern cotton mill. Best references as to ability and character from some of the most successful manufacturers in South. Address Mill care of Southern Textile Bulletin.

Hurt at Kannapolis.

J. T. Culbertson, of Bessemer City, N. C., who has been working at Kannapolis, N. C., for some time was run into last Saturday by a fellow workman. In the compact Mr. Culbertson was thrown against a loom

and sustained a severe injury about his left hip. Owing to the nature of the injury and its severity it was thought best to remove him to a hospital, and Tuesday he was carried to Charlotte, where he is being treated at one of the hospitals.

Wymojo Yarn Mills. Rock Hill, S. C.

M. D. Haney.....Superintendent
W. W. Greshaw.....Day Carder
L. B. Clyburn.....Night Carder
J. D. Tiller.....Day Spinner
J. A. Elliott.....Night Spinner
Dan Long.....Master Mechanic

Hampton Cot. Mills—(Granby Plant) Columbia, S. C.

S. W. Mims.....Superintendent
W. P. Leister.....Carder
Wm. P. Cargill.....Spinner
D. F. Short.....Weaver
W. H. Turbyfield.....Cloth Room
J. A. Floyd.....Master Mechanic

Ivey Mill Co., Hickory, N. C.

H. W. Warner.....Superintendent
G. T. Barger.....Carder
B. D. Abernethy.....Spinner
J. M. Freeman.....Weaver
T. J. Leonard.....Weaver
T. J. Leonard.....Cloth Room
J. B. Clay.....Master Mechanic

Merrimack Mfg. Co., Huntsville, Ala.

J. J. Bradley.....Gen. Manager
B. J. Fisher.....Superintendent
L. H. Miller.....Carder
Geo. Lahman.....Spinner
J. W. White.....No. 1 Weaver
J. W. Trigg.....No. 2 Weaver
G. E. Foster.....Cloth Room
C. Burley.....Master Mechanic

THOMAS LEYLAND & CO.

Office and Works, Readville (Boston), Mass.

IMPORTERS AND MANUFACTURERS
**Gums, Dextrines, Tapioca Flours, Starches,
Sizing Gums, Finishing Gums, Etc.**

SOLE MANUFACTURERS

The William Mycock Patented Regulating Cloth
Expanders, Scutchers, Sewing Machines, Guides, Etc.

Cramer System of Air Conditioning

WITH OR WITHOUT

Automatic Regulation of Humidity and Temperature

Moderate in Cost

Cheap to Operate

Yields Big Returns

STUART W. CRAMER

CHARLOTTE,

NORTH CAROLINA



MILL NEWS ITEMS OF INTEREST

Bladenboro, N. C.—It is reported that the Bladenboro Cotton Mills are considering plans for doubling the size of their mill.

Greenville, S. C.—The F. W. Poe Mfg. Co. has placed orders for something over a million flat steel heddles with which to equip looms heretofore using cotton twine harness. The orders for the flat steel heddles were placed with the Steel Heddle Mfg. Co., of Philadelphia, Pa., through their Southern agent, Hampton Smith of Greenville, S. C.

Knoxville, Tenn.—The capital stock of the Knoxville Spinning Co., knit goods, will be increased from \$50,000 to \$100,000, according to an application for an amendment to its charter filed in the office of the county court clerk.

Colonel L. D. Tyson, president of the company, states that the increase is made in the capital stock to accommodate a larger business. New equipment and machinery will be added, he said, and the output of the company will be increased greatly.

Those named in the amendment sought are, Colonel L. D. Tyson, G. T. Leonhardt, C. M. Tyson, S. W. Duggan and L. T. Lee.

Columbus, Ga.—The annual meeting of the stockholders and board of directors of the Meritas Mills was held last week, with every one of the stockholders present, representing all of the stock. Those here were:

Alvin Hunisicker, of New York; H. M. Garlick, of New York; George D. Allen, of Akron, Ohio; W. E. Thacher, of New York, and Frank U. Garrard, of Columbus.

The report of the president revealed the condition of the mill to be of the best, and called attention to the improvements made during the last year, when a warehouse was added, another one leased and the capacity of the mill increased.

At the meeting of the board of directors, Albert Hunisicker was elected president, H. M. Garlick was chosen vice president, and W. E. Thacher was elected secretary and treasurer, and J. T. Broadbent was again appointed agent. Preceding this meeting, the stockholders elected the board of directors, naming Messrs. Hunisicker, Garrard, Thacher, Garlick and Allen.

H. J. Holbrook is Named as Receiver.

The first meeting of the creditors of the Brookford Mills, bankrupts, was held in Hickory, N. C. H. J. Holbrook, secretary-treasurer of the corporation, was appointed sole receiver by Referee Pearson of Morganton, before whom the hearing was staged. Through their attorneys, the minority stockholders filed exceptions to the appointment of Mr. Holbrook as sole trustee. They also filed exceptions to the claim of A. D. Julliard & Co., of New York,

Parker Cotton Mills Central Offices at Monaghan Mills.

The Parker Cotton Mill Co. will henceforth maintain its central offices at Monaghan Mills, Greenville. The office fixtures have been moved from the fifth floor of the Masonic Building to the Monaghan office. All officials connected with the central management of the corporation will have their places of business at Monaghan. The company will maintain no office in the city of Greenville. For some years the Parker Cotton Mills Co. has transacted its central business from headquarters in the Masonic Building.

Graniteville Offers to Turn Over Property to Its Creditors.

The sense of the meeting of the stockholders at the offices of the Graniteville Manufacturing Company Thursday morning in Graniteville was that the affairs of the company be turned over to the creditors of the corporation, who would be empowered to direct the operation of the mills until such time as the property should pay itself out of debt, or until such time as it should appear that this could be done.

This idea was embodied in the following resolutions, offered by D.

S. Henderson, of Aiken, and unanimously adopted:

"Resolved, That the sense of this meeting is that the stockholders of the Graniteville Manufacturing Company shall unanimously agree to turn over the affairs of this company to the creditors of same, believing their interests will be conserved thereby.

"Resolved, further, That a committee of five stockholders be appointed by the chair with full power to communicate with all stockholders, to obtain from them such power and written authority as may be necessary to carry out the above-mentioned resolution.

"Resolved, further, That this meeting adjourn pursuant to by-laws No. 5, article No. 1, to meet at Graniteville November 11, 1915, at 11 a. m."

The above resolutions embody the sentiments of the stock present and represented by proxies at the meeting, the total of which was 5,222 shares out of a total of 8,352 shares of outstanding stock. This action is, of course, not binding, and it is optional with the creditors whether or not they shall acquiesce in the plan, and it is also necessary that the consent of the balance of the stockholders be obtained. However, this plan was agreed upon after thoughtful deliberation as the most practical solution to the present problems of the Graniteville company—the suggestion of a friendly receivership having proved a very unpopular plan.

The auditing company approximates the liabilities of the company as \$1,005,514.23. The gross assets are \$2,265,873.63, of which \$170,000 is what they term "quick assets," or assets on which money can be realized quickly.

The chief liabilities are divided as follows:

Notes payable, \$594,729.23; accounts payable, \$69,064.26; deposit account, \$54,094.17; and \$251,651 is owed to Haines-Morehouse-Woodford Company, New York agents for the Graniteville Manufacturing Company.

Asked to enumerate some of the company's "quick assets," the representative of the auditing company enumerated the following: Cash in bank, \$14,000—this is funds that operating mills are required to keep on deposit; accounts receivable, \$2,700; notes receivable, \$7,500; sundry assets, \$8,900; live stock and staple equipment, \$5,400; furniture, \$2,230; stocks and bonds, \$5,900; 66 shares in the Bank of Graniteville, \$5,400, and shares in the Augusta-Savannah Navigation Company, \$2,500.

Steering Committee's Report.

William Martin, chairman of the steering committee, then read the following report:

"The tentative investigation of your committee discloses the fact that the assets of the Graniteville Manufacturing Company are valued in excess of \$2,000,000.

HEADQUARTERS SOUTHERN TEXTILE ASSOCIATION MEETING November 2d to 6th OTTARAY HOTEL GREENVILLE, S. C.



Why Load And Unload

when this excessive re-handling can be reduced one-half by use of

NATIONAL-CHAPMAN ELEVATING TRUCKS?

Thousands of users realizing satisfactory and attractive savings by this method.

WHY NOT YOU?

Handling expense reduced to a minimum. Greatest convenience possible secured. Damage of goods handled eliminated. These benefits all within your reach.

Visit us at our space 544, Southern Textile Exposition, Greenville, S. C., and allow us to demonstrate this equipment.

Illustrated catalog sent upon request.

NATIONAL SCALE COMPANY

40 Montgomery Street,

Chicopee Falls, Mass.

"The total indebtedness of the company is about \$972,000, with quick assets of about \$125,000.

"The figures show a large equity in excess of indebtedness.

"It has been suggested that the affairs of this company may be worked out through a friendly receivership, under which receivers' certificates would have to be issued, which certificates will, of course, take precedence over the present indebtedness of the company, to which would necessarily be added heavy legal and receivership expenses coming ahead of the present creditors. Your committee, however, is strongly averse to a receivership under any conditions if it can possibly be avoided, for all the many reasons that need not now be enumerated, so well known to the business community.

"This plan which your committee now recommends to all parties interested is as follows:

"First—The stockholders of the mill to elect as directors the nominees of the present large creditors.

"Second—This new directory to select such active management as the present large creditors recommend.

"Third—The present large creditors to assent in writing to a priority over their claim to be given to parties advancing the corporation new money to any amount not exceeding \$200,000; the new money so advanced to be finally liquidated in full in a period say not exceeding two years from date.

"All of which is respectfully submitted.

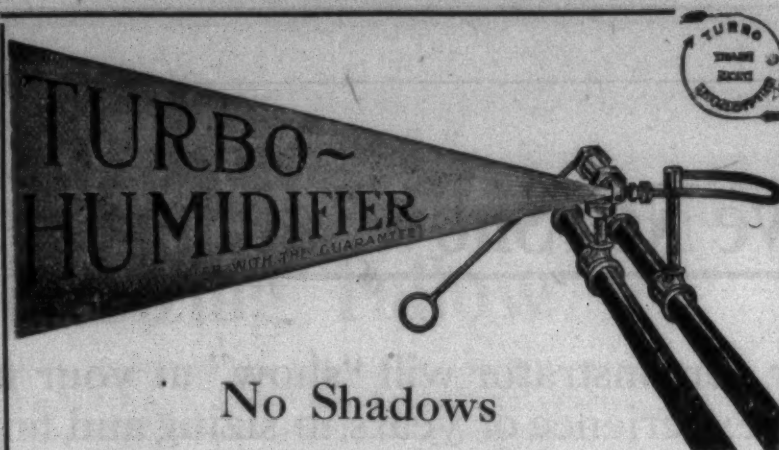
"William Martoin, Chm.

Graniteville Creditors Meet.

Following the meeting in Graniteville, which was participated in jointly by stockholders and creditors there was a meeting at the Georgia Railroad Bank, representing the two. These meetings were held separately, and when asked for a statement regarding them President S. A. Fortson gave out the following interview:

"Since the meeting of the stockholders and creditors of the Graniteville Manufacturing Company, held at Graniteville, the two committees that they have appointed, to-wit: the committee of creditors and the committee of stockholders, have already met and taken steps for immediate communication with creditors and stockholders, respectively with the view of having put into legal form the necessary agreements for carrying out the resolutions adopted at said meeting.

"The atmosphere prevailing at these meetings was one of optimism and strong belief that the mills would be put in operation within the shortest possible time consistent with the requirements of the case.



One of the objections to humidifiers is the overhead piping which—especially in saw-tooth roofs—casts disagreeable shadows.

THE TURBO HUMIDIFIER

has as a possible ramification its ring construction; the rings are around the posts and the piping all underneath, out of the way. No shadows with the Turbo Ring Construction. This may seem a minor detail, but it is one of the Turbo points that leads toward satisfied customers.

Get Turbofied—and satisfied.
be satisfied.

Just say the word—NOW—to

THE G. M. PARKS CO.

Fitchburg, Mass.

Southern Office Commercial Building, Charlotte, N. C.

J. S. COTHRAN, Manager.

"The stockholders and creditors who have participated in the meeting at Graniteville and in the meeting of the two large committees in Augusta, are so united in their purposes and designs that it is felt that any effort on the part of any creditors who were not represented either to put the property in the hands of a receiver or to take any steps in bankruptcy, would be unavailing and can be easily defeated.

"The committee who have charge of the work to be done by the creditors, and who will promote the efforts in view, are as follows: Jacob Phinizy, chairman; Judge E. H. Callway, Messrs. Henry A. Haines, W. B. White, Jesse H. Rives and Henry R. Buist.

"The committee of stockholders, who have charge of carrying out the resolutions adopted by the stockholders, are Messrs. D. S. Henderson, R. Roy Goodwin, Henry R. Buist, S. A. Fortson and W. B. White."

Successful Textile Fair at Greensboro.

The third annual Textile Fair, "for and by" the employees of the White Oak, Proximity, and Revolution Cotton Mills, and the Proximity Print Works, Greensboro, N. C., was held the last three days of last week. The formal opening was held Thursday night, at which time addresses were made by Caesar Cone, president of the White Oak and Proximity Mills, and E. Sternberber, president of the Revolution Mills. The attendance at the opening was estimated at 5,000 people.

The fair was held in the new weave room at the Revolution Mills, there being floor space of 130 by 400 feet. There was an almost countless number of exhibits, and all of them were entered by the employees of the mills. These exhibits consisted of products of the garden, fancy work, embroidery, basketry, canned goods, preserves, pickles, articles of clothing, needle work, and a huge number of other things, each bearing the name of the entrant residing in one of the villages. The company stores had attractive booths. Then there was the midway offering a big variety of amusements, and each performer or "freak" was local talent.

One of the most striking exhibits was that of the Welfare Department of the mills, their showing being both comprehensive and convincing. The different schools of the villages also had attractive exhibits, and the "Better Babies Contest" was the center of much interest.

This was the third of these annual fairs, and the largest and most successful yet held. There was no admission charge.

TEXTILE BOOKS

Carding and Spinning, by G. F. Ivey.—Price \$1.00. A practical book on carding and spinning which will be found useful.

Carding Lessons for the Mill Boy—Vaughan—Price \$1.00. A practical carder. Written especially for young carders.

Cotton Mill Processes and Calculations—By D. A. Tompkins—Price \$5.00. An elementary text book for textile schools and self-instruction. Every operation in the ordinary cotton mill is explained simply and with the use of illustrations. Contains much information of value to the experienced man. 395 pages; 33 illustrations; cloth.

Plain Series of Cotton Spinning Calculations—by Cook—\$1.00. A unique and valuable book giving the calculations used in mixing, carding, drawing, and spinning cotton, also original drawings showing points where changes of drafts, speeds, etc., should be made. Setting, production, doublings. 90 pages; freely illustrated; cloth.

CLARK PUBLISHING COMPANY

CHARLOTTE, N. C.

AMERICAN MOISTENING COMPANY

BOSTON, MASSACHUSETTS

WILLIAM FIRTH, President

FRANK B. COMINS, Vice-Pres. and Treas.

THE ONLY PERFECT SYSTEM OF AIR MOISTENING
COMINS SECTIONAL HUMIDIFIER

JOHN HILL, Southern Representative, 1014 Healy Building, ATLANTA, GEORGIA

We Have No "Show" at the Exposition

Our demonstrator will "show" at your mill.
Our experience of years in sizing and finishing is at your disposal.



The New Brunswick Chemical Company
New Brunswick, New Jersey

SOUTHERN REPRESENTATIVE: M. EINSTEIN, CHARLOTTE, N. C.

MASON BRUSH WORKS

WORCESTER, MASSACHUSETTS

MANUFACTURERS OF

MILL and MACHINE BRUSHES

OF EVERY DESCRIPTION

FOR COTTON, WOOLEN and SILK MILLS

BRUSHES REPAIRED



Soluble Sizing Tallow

THIS PREPARATION is simply raw beef tallow made soluble. In view of the fact that raw tallow will not dissolve and hence does not combine with starches, we herein offer an article that avoids these objectionable features. Soluble Sizing Tallow dissolves and combines readily with all starches and acts as a most valuable softening agent. Users of this article will avoid the danger of mildewed warps and also the disagreeable odor of Raw Tallow in the goods. In short, an excellent softening agent.

Yorkshire Gum

A SOLUBLE GUM to be used in Warp Sizing. It is especially valuable as a binder, as it combines readily with any starches and holds the Size well on the yarn. We recommend this Gum especially where drop wires are in use. Besides making a smooth, pliable warp, users of Yorkshire Gum will find the threads split readily, and "break backs" are eliminated. While giving the very best results, it is, at the same time, a most economical Size. It also prevents foaming in the box. Should use Raw Tallow or Soluble Tallow in addition. Write for formula.

Weightening Softener

WE HEREIN OFFER a preparation that combines both weightening and softening properties as the name indicates. It is difficult to obtain a weightening material that does not impair good weaving, as most materials of this nature have a tendency to harden the warp and make it stiff and brittle. Our Weightening Softener overcomes this difficulty entirely and while adding the desired percentage of weight at the same time it leaves the warp soft and pliant, and is a valuable ingredient in sizing and weaving. It penetrates well and is not left on the outside. By this means, it overcomes the complaint of so much shedding which is usually the case in adding weight. Write for formula.

Arabol Softening Oil

A VERY VALUABLE SOFTENER for use in warp sizing. Pound for pound it softens more than raw tallow, and, is, thereby, more economical. It is especially valuable when used in conjunction with a gum or our weightening softener, as it penetrates the yarn and adds elasticity and strength. In addition to its softening properties it is very valuable in sizing as it keeps the cylinders perfectly smooth and prevents the yarn from sticking. In this it is far superior to tallow. This oil is neutral and can be used with any sizing material. Superior to tallow as it is always uniform, and contains no acid as so much of the tallow does. We solicit a trial.

ARABOL MANUFACTURING COMPANY

100 William Street, NEW YORK

CAMERON MacRAE, Southern Sales Agent

CHARLOTTE, N. C.

Around the Exhibition Hall.

(Continued from Page 12).

were distributed through the Exposition building as a precaution against fire. H. C. Mimms was in charge of the exhibit and Geo. E. Goodwin of Atlanta, was present as special Pyrene representative.

J. F. & W. H. Warren Co., of Worcester, Mass., had the next space and showed a water-proof belt running submerged in water. They also showed leather in the rough and finished leather. H. C. Mimms, Southern agent, was in charge of the exhibit.

The Manufacturers Record of Baltimore, Md., occupied the next space.

Third Floor.

Up another flight of stairs we reach the third floor and beginning at the last section we find the exhibit of the **Western Electric Co.**, featuring reflectors for cotton mill lighting and their interphone system. Also line of conduits for cotton mill work. P. E. Davidson, W. E. Lotspeich and H. Parks in charge.

The next exhibit was that of the **Whitinsville Spinning Ring Co.**, of Whitinsville, Mass., showing samples of their well-known spinning and twisting rings. They gave handsome pencil savers as premiums. E. B. Smith was in charge.

Thos. Leyland & Co., of Readville, Mass., exhibited their Mycock Regulating Cloth Expander and several other devices.

The **Sanitary Engineering Co.**, of Charlotte, N. C., featuring sanitary septic tanks for mill villages. W. E. Thomas was in charge.

The Bird, Wilcox Co., of Atlanta, exhibited machines for welding cast iron, sheet and all other kinds of metal by oxy-acetylene process, and also for cutting steel and wrought iron. The actual welding and cutting were shown the visitors. Geo. Bird, J. H. Lamb, and P. W. Wilcox were in charge.

The exhibit of **Mossberg Wrench Co.**, of Central Falls, R. I., featured electrical warp stop-motions and sim-pull, sim-plies and multiple belt shifts, punchings of all kinds and drop wires and copy holders. Fred F. Martin was in charge.

The exhibit of **Wm. C. Robinson & Co.**, of Baltimore, Md., showed an oil cabinet with metal kegs containing their various lubricating oils. They also showed "Slashol" for use in sizing and finishing and a full line of lubricating greases. They showed a wide variety of cotton goods finished with "Slashol." Those in charge of the exhibit were W. C. Robinson, W. L. Blackwelder, Ben F. Houston, W. A. Biggs, R. Tautenhahn, Geo. M. Miller, and Mr. Burgin.

The Empire Mfg. Co., of Goldsboro, N. C., showed packing cases of several kinds.

The Normalair Company of Winston-Salem, N. C., exhibited their motor driven type humidifier in actual operation and their belt-driven head idle. F. F. Bahnson was in charge, assisted by Geo. Gray.

Walsh & Houston of Lawrence, Mass., in the last booth in this section, showed one of their latest sewing machines in operation. H. Houston was in charge.

The exhibit of the **Kron Scale Co.**, was at the end of the second aisle and showed a cloth room scale of 1,000 pounds capacity by one pound graduations, one new special lap scale operating on overhead trolley, a special cloth room scale and portable bale scale. The center of the exhibit was a model of a dial mechanism. J. Kirk Rowell, of Louisville, Ky., and Wm. Kalaher, of Greenville, S. C., were in charge.

The exhibit of **Burroughs Adding Machine Company**, featured various forms of calculating, ledger posting, pay roll and cost finding machines. Floy Hughes was in charge, assisted by E. B. Meyer and D. D. Peete.

Norris Bros., of Greenville, S. C., had a very elaborate display of shuttles and shuttle irons. They featured the Taylor patent hand threading shuttle. A. M. Norris and Robt. A. Taylor were in charge.

The exhibit of **Felt & Tarrant Mfg. Co.**, of Chicago, showed various styles of comptometers, together with photos of the first adding machine ever built, the inventor of the Comptometer and the Felt & Tarrant plant. Walter E. Sloan of the Charlotte office, was in charge, assisted by Arch Dawson.

The Addressograph Company of Atlanta, showed the Addressograph and Graphotype machines in operation. A. S. Woodward, manager, was in charge, assisted by D. R. Hook.

The Keystone Lubricating Co. showed their well-known grease in various size cans and cups. Karl Kologiski and C. G. Savage and Karl

Kologiski, Jr., of Savannah, were in charge.

The Dixie Packing Co., of Atlanta, had a very complete display of rubber and composition packing in its various forms.

The Southern Novelty Company, of Hartsville, S. C., had a booth very tastefully decorated with their paper cones. They also had a Universal Winding Machine, winding yarn on cones. P. L. McCall, W. H. McCall, W. C. Boyd and C. W. Coker were in charge.

The Cling Surface Co. had an exhibit demonstrating easy slack running belts and rope drives. J. B. Faatz was in charge.

The exhibit of the **Poe Hardware & Supply Co.**, at the end of this section, featured the products of the U. S. Ring Traveler Co., J. H. Williams & Co., Brooklyn, N. Y., O. J. Childs Co., Utica, N. Y., Albany Lubricating Co., New York, Fairbanks Co., Baltimore and Edwards Mfg. Co., Cincinnati, Ohio. Fred Graham was in charge, assisted by B. R. Hughes and W. T. Williams of the Fairbanks Co., Matt Ousley of the U. S. Ring Traveler Co., J. M. Blanton and L. L. Wolf, of the Edwards Mfg. Co.

The International Acheson Graphites Co., exhibited their graphite products "Gredag" and "Oildag" in barrels and cans and demonstrated by means of paper the penetrating properties of both. They also had several charts showing the saving in power at specified mills through the use of their products. R. M. Shattuck, sales manager from Niagara Falls, N. Y., and B. B. Pope, of

A. KLIPSTEIN & CO.,

644 Greenwich Street, New York

Southern Office, Commercial Bank Building

CHARLOTTE, N. C.

ANILINE OIL

MAZOLA OIL

ALIZARINE

PARAMA OIL

BLEACHING OIL

SHUMAC EXTRACT

LOGWOOD EXTRACT

FUSTIC EXTRACT

QUERCITRON EXTRACT

MANGROVE EXTRACT

CUTCH EXTRACT

SULPHUR BROWN B. F.

WHITE SOFTENER, 8a.

INDIGO EXTRACT

CONCEN SIZE

INDIGO

MANCHESTER SIZE

All kinds of Bleaching and finishing materials.

Lithopone, Zinc Oxide, Etc., for paint makers.

Charlotte, were in charge.

The **Joseph Dixon Crucible Co.**, of Jersey City, N. J., had in their booth samples of their lubricants and belt dressings.

The **Keystone Fibre Co.** occupied the end of the next section and show a full line of fibre boxes and cans. They featured a warehouse truck, which they call the "Veneer-Hercules Truck." D. D. Howard, of Philadelphia, was in charge.

Ashworth Bros., exhibited a machine in operation, manufacturing top flat clothing and it attracted much attention. Henry Ashworth, Wm. Bigelow, Geo. Ashworth, Ed. Isenhour, Jack Horner and Harry Zayotti.

The **D. D. Felton Brush Co.**, of Atlanta, Ga., showed a full line of brushes of every description. They specially featured floor sweeps and floor scrubs. J. B. Fitch, manager,

in the corner of the top floor, showed oxy-acetylene welding and cutting torches in operation. J. C. Rasbury, Southern manager, was in charge, assisted by J. J. Ovinger, Baltimore, Md.

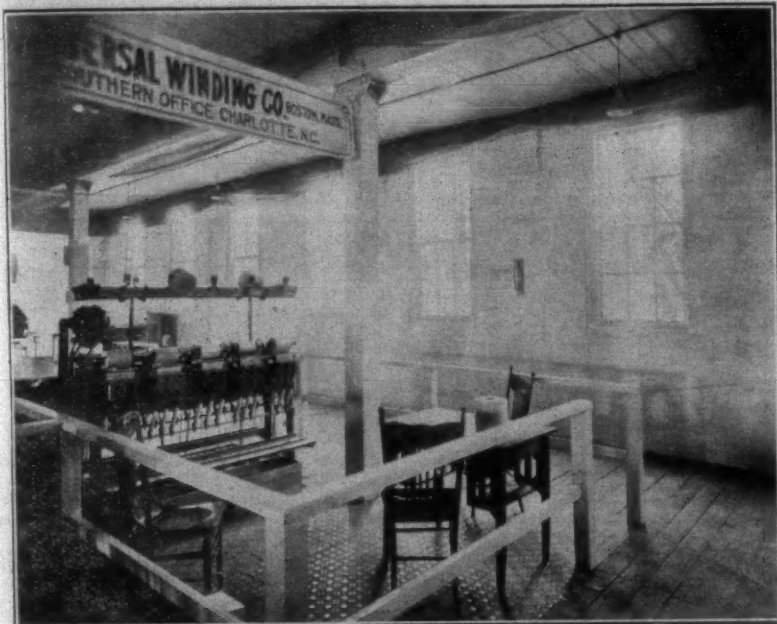
The **Leatheroid Mfg. Co.**, of Philadelphia had a very complete line of fibre doffing boxes and roving cans, which attracted much attention.

J. L. Nieukirk and L. B. Rogers were in charge.

The **Bradley Stenciling Machine Co.**, of St. Louis, showed several forms of their stencil cutting machines.

The **Murphy Iron Works**, of Cincinnati, Ohio, had the last section on the third floor. They showed a model of the Murphy stoker system and also several power charts. G. C. Illingworth was in charge.

The **Main Belting Co.** had a well-arranged booth in which they show-



Universal Winding Co.

and G. B. Snow were in charge.

The **Clipper Belt Lacer Co.**, Grand Rapids, Mich., showed a line of their "Clipper Lacers" and "Clipper" Belt Hooks. The belt lacing machines were so made that they can be carried to the belt and the belt laced in three minutes. A. B. Holland and G. P. Foote were in charge.

The **Carolina Supply Co.**, of Greenville, showed a large line of all kinds of mill supplies. F. J. Cogswell was in charge of the exhibit.

The feature of the exhibit of the **American Pulley Co.** was a large steel split pulley mounted on ball bearings. They featured their efficiency indicator, which showed a pulley itself, consumed when revolving on a shaft unloaded. Chas. E. Brinley, vice resident and manager, and F. E. Huxley, Southern sales representative, were in charge.

The **Dixie Seal & Stamp Co.**, of Atlanta, Ga., showed stencils and copper and rubber stamps, metal dies. Arthur Wringley was in charge.

The **Lunkenheimer Co.**, of Cincinnati, Ohio, exhibited their line of engineering specialties. They featured their non-return safety boiler stop valve, which is coming into very general use. C. W. Thrash and W. M. Hood were in charge.

The **Searchlight Co.**, of Chicago,

ed samples of their Leviathan-Anacondo Belting.

First Rear Section.

Entering the first rear section and turning to the right we find the exhibit of the **American Warp Drawing Machine Co.**, showing a D. No. 2 machine in operation. A. W. Harris was in charge, assisted by Emile LeClair and J. R. Henson.

The next stand was that of the **Hercules Truck Mfg. Co.**, of Philadelphia, featuring their self-loading trucks. E. S. White was in charge.

Joseph Sykes Bros., of Charlotte showed stripper brushes, lick-in, grinders, and samples of all forms of card clothing from actual stock. Also a card clothing machine. R. S. Thomas was in charge, assisted by Louis Thomason and Guy Melchor.

The **Saco-Lowell Shops** exhibited their four-coiler finisher waste card in operation. Also a camless winder and spooler equipped to spool from a filling wound bobbin. Roger W. Davies, Robt. F. Bowe, Jas. Strang, H. C. Cole, O. E. Nutter, H. C. Jones, and J. W. Outz were present.

The **American Machine & Mfg. Co.**, of Greenville, showed their waste cleaner and samples of waste; also

LESS SECONDS

Aragon Cotton Mills

Rock Hill, S. C., Apr. 16, 1915.

Steel Heddle Mfg. Co.,

Philadelphia, Pa.,

Dear Sirs:

We have had one-fourth of our mill equipped with your Flat Steel Heddles for nearly one year. We get just as many yards of 80x80 PRINT CLOTH from the steel heddles as we do from the twine harness, and MAKE FEWER YARDS OF SECONDS. I consider it the best harness we can buy. We have just placed the order for the full 560 sets.

Yours truly,

P. B. PARKS, Supt.

The above is a sample of the many testimonials we have received from our customers. If your mill is interested in the question of **Better Quality, Better Production**, and at **Less Cost**, for harness supplies, we have some facts that will interest you.

The highest sleys known to the cotton trade and to the silk trade are made most successfully when our "Duplex" **Flat Steel Heddles** are used.

Our "Universal" iron-end harness frames, with or without slide hooks, are now generally accepted as the best frames made.

We make steel drop wires in all patterns of the best quality and superior finish. We are specialists in steel wire.

Let us hear from you. A card will bring a call.

STEEL HEDDLE MFG. CO.,

2100-2120 West Allegheny Ave.,

PHILADELPHIA, PA.

HAMPTON SMITH, Southern Agent

GREENVILLE, S. C.

Around the Exhibition Hall.

(Continued from Page 25).

a self-cleaning condenser. J. B. Brennen and J. R. McDonald were in charge.

The General Fire Extinguisher Co. showed automatic "Grinnell" sprinklers, size kettles and a full line of pure fittings and valves. J. F. McKee and C. W. Wilkinson were in charge.

The S. K. F. Ball Bearing Co. showed models of bearings equipped with their system and also several sizes of ball-bearing spindles. F. V. L. Smith was in charge.

Curtis & Marble Machine Co., of Worcester, Mass., showed photographs of the various machines. They also showed twin screw rolls, speeder rolls and adjustable measuring devices and a grid bar for paper tubes. E. H. Marble and C. F. Marble were in charge.

The Lombard Iron Works & Supply Co., of Augusta, Ga., showed a line of mill supplies, lamps and boiler materials. Jas. Brotherton was in charge.

The Goulds Mfg. Co., of Seneca Falls, N. Y., showed models of triplex and centrifugal pumps. Also a full line of literature. O. B. Tanner was in charge.

Jenkins Brothers occupied the last booth in the first section, with a very full line of their valves. B. R. Wofford was in charge.

Second Rear Section.

Entering the second rear section and beginning at the door we found Seydel Mfg. Co., of Jersey City, N. J. They showed samples of Sizol, nitro benzol, aniline oil, finishing and sizing compounds, softeners, etc. They also had a beautiful line of cotton goods, which had been finished with their products. H. Seydel, S. C. Thomas and Geo. Witherspoon were with the exhibit.

They were giving away a barrel of Sizol to the mill man who guessed nearest to its exact weight.

The next booth was occupied by the Textile World Record, of Boston, Mass.

The exhibit of the National Ring Traveler Co., of Providence, R. I., consisted of a very wide variety of the ring travelers which they manufacture. The booth was tastefully decorated and the boxes of travelers showed to advantage. C. D. Taylor of Gaffney, was in charge.

The U. S. Government exhibit consisted of a very interesting exhibit of cotton goods collected in foreign countries by commercial agents. With each sample was a full description, including the foreign price. The exhibit was in charge of W. A. Graham Clark.

Graton & Knight Mfg. Co., of Worcester, Mass., exhibited in operation their V belt drive for looms. They also showed a wide assortment of belting both in plain and special forms. The exhibit was in charge of R. P. Champney, J. R. Fox, H. M. Barney and J. G. Patterson.

The Textile Department of Clemson College had a very attractive exhibit. They had a Stafford loom with a jacquard head weaving pictures of President Wilson. A twister making novelty yarn, a braiding

machine and a dyeing machine, dyeing warp with para nitrite red. They showed a full line of samples dyed with American dyes. All of the Southern Textile Association badges were woven at Clemson College. With the exhibit were Prof. C. S. Doggett, and C. W. McSwain.

The Otis Elevator Co., showed a model of one of their conveying systems and also samples of elevator lubricants. A. G. Saville and C. L. Trussel were in charge.

H. F. Livermore & Co., of Boston, Mass., showed a full line of weavers' supplies and loom repairs. W. P. Vaughn was in charge.

The Ensign Mfg. Co., of Boston, Mass., exhibited their calculating machines in several forms. C. T. Daley was in charge.

Alexander Bros., of Philadelphia, Pa., exhibited samples of their belting. W. D. McLoud was in charge.

The National Scale Co., of Chicago, Ill., were showing their National-Chapman trucks and weighing and counting machines. The trucks had a special device for lifting. J. W. Grayson was in charge.

The Philadelphia Grease Co. showed a full line of their lubricating compounds. Mr. Smith was in charge.

Dana S. Courtney & Co., of Chicago, Ill., had a very attractive line of spinning and roving frame bobbins.

S. T. Packard, general manager, was in charge.

Alfred Suter, of New York, had a full line of yarn testing and weighing machines. He also exhibited the apparatus of The Permutit Co. Mr. Suter was present in person.

The Douglas Co. exhibited a full line of their textile mill starches, a grade for every purpose. These starches were dried on a new vacuum system method, which they claim insures absolute uniformity. I. L. Griffin was in charge. H. G. Welborn, special textile man, and H. F. Bower from Cedar Rapids, were present.

The Clinton Cam Co., of Clinton, S. C., were exhibiting an attachment known as the Casey Cam Device, which is used to prolong the life of loom cams by being attached on the side of worn cams. A. G. Kennedy and M. R. Casey were in charge.

The McNaughton Grate Bar Co. exhibited one of their full size rocker grates and demonstrated its operation. R. G. Marr was in charge.

The American Moistening Co. had the best booth in this section and showed the Comins Sectional high-duty humidifiers in operation. They showed their device for automatic humidity control. They also showed self-cleaning atomizers with cleaning off attachments. J. D. Johnston had charge of the exhibit. Frank Comins of Boston, John Hill and J. F. Porter of Atlanta, were present.

Third Rear Section.

Entering the third rear section and turning to the right we found a full line of the fibre cans and doffing boxes manufactured by the Standard Fibre Co., of Somerville, Mass. J. A. Hanson was in charge.

R. S. Huntington, electrical specialist, of Greenville, had a display

(Continued on Page 30).



Our Spinning Rings SINGLE OR DOUBLE FLANGE
START EASIEST, RUN SMOOTHEST, WEAR LONGEST
Pawtucket Spinning Ring Co.
CENTRAL FALLS, R. I.

RICHARD A. BLYTHE

(INCORPORATED)

Cotton Yarns Mercerized and Natural

ALL NUMBERS

505-506 Mariner and Merchant Building

PHILADELPHIA, PA.

THE SEYDEL MFG. COMPANY
JERSEY CITY, N. J.



Sizings and Finishings

Soaps and Softeners

FOR ALL TEXTILES.

The Desirability of the South

as the place to manufacture cotton goods is illustrated in the increase of 67% quoted by census department. We can offer attractive situations for those desiring to enter this field.

J. A. PRIDE

General Industrial Agent Seaboard Air Line Railway

NORFOLK, VIRGINIA.

You Can Reduce Weaving Costs

Send us a worn shuttle with completely filled bobbin and state kind of goods woven and name of loom. These will explain your needs and help us to design an efficiency shuttle for your requirements. This shuttle has the approval of loom builders and weaving experts. It should help you to weave better fabric at a lessened expense.

SHAMBOW SHUTTLE COMPANY

Woonsocket, R. I.

President's Address

(Continued from Page 3).

it cannot but injure the child it seeks to help.

That "an idle brain is the devil's workshop" has always been true enough, but it applies with startling force to any community like a city or industrial center where thousands of people live close together and where all idle children are under a natural temptation to band themselves together for purposes of mischief, innocent or malicious. The wise and sensible course, it seems to me, would be to make our fight for better state laws for the good of the child, and, when that battle is won, then will be the time for uniform legislation by federal action.

Objection has been made to the passage of the Palmer bill because it invades the right of the states to regulate their own affairs. There is something in this contention, but it pales into insignificance by the side of the more serious and weighty objection I have mentioned. Industrial and social conditions differ widely in the various states, and until these conditions are fairly equalized a federal statute could not fail to operate unjustly and harshly against many of our best people.

We are bound to admit that the percentage of illiteracy in our mill population, among children and adults, is larger than we like to believe as it is in many other elements of our general population. In justice to the mills, the real cause of this illiteracy, it must be emphasized, did not originate there.

It goes back to the rural communities of a former generation, and to some in the present, in which the public schools were sadly neglected. Educational progress in mill communities, has relatively, within the past few years, been more substantial than it has in the average rural district. The great task that lies before us is to continue what has been so well begun, and I think you will agree with me that reform and relief must come, not by outside interferences or by legislation such as is proposed prematurely in the Palmer act, but by compulsory education laws framed by our states to meet our own particular needs.

The Southern Textile Association has within its membership the power to accomplish boundless good in building up the weak places in the business, civic and social life of mill communities.

Experience is a fine teacher, and we ought here to exchange the ideas we have found to be good and sound and progressive by having tried them out.

In spite of the financial depression of the past year, we have not lost sight of the necessity of keeping progress as the watchword of all mill enterprises and endeavor, and, as the clouds show signs of breaking and clearing away, the future will certainly bring to each and all of us wider opportunities for building upon a more lasting foundation.

Among the Exhibitors Present.

(Continued from Page 7.)

F. W. Richardson, with Scott & Williams.
R. M. Shattuck, with International Acheson Graphite Co.
G. B. Snow, with D. D. Felton Brush Co.
C. G. Savage, with Keystone Lubricating Co.
John Selzer, with Westinghouse Elec. & Mfg. Co.
W. G. Shield, with Guion Starch Co. Laughlin Steel Co.
J. E. Serrine, with J. E. Serrine.
A. G. Smith, with Corn Products Refining Co.
J. H. Spencer, with Barber Colman Co.
Hampton Smith, with Steel Heddle Mfg. Co.
A. H. Silverster, with Sharp Manufacturing Co.
J. E. Shelton, with Dixie Packing Co.
E. B. Smith, with Whitinsville Spin. Ring Co.
L. A. States, with States Sectional Grate Bar Co.
W. S. Stelling, with Textile Finishing Mch. Co.
P. J. Smith, with Scott & Williams.
J. M. Sams, with Scott & Williams.
Alfred Suter, with Alfred Suter.
Mr. Smith, with Phila. Grease Co.
A. G. Saville, with Otis Elevator Co.
H. Seydel, with Seydel Mfg. Co.
F. V. L. Smith, with S. K. F. Ball Bearing Co.
Jas. Strong, with Saco-Lowell Shops.
Louis Thomason, with New York & New Jersey Lubricant Co.
Sidney B. Paine, with General Electric Co.
Milton G. Smith, with Jones & Laughlin Steel Co.
H. S. Smith, with The Draper Company.
E. M. Teryberry, with Howard Bros. Mfg. Co.
Robt. A. Taylor, with Norris Bros.
W. E. Thomas, with Sanitary Engineering Co.
C. L. Trussel, with Otis Elevator Co.
C. D. Taylor, with National Ring Traveler Co.
S. C. Thomas, with Seydel Mfg. Co.
G. B. Tanner, with Goulds Mfg. Co.
R. D. Thomas, with Jos. Sykes Bros.
Louis Thomason, with Jos. Sykes Bros.
F. K. Torrance, with The Texas Co.
J. Henry Thorpe, with U. S. Bobbin & Shuttle Co.
R. Tautenhahn, with Wm. C. Robinson & Sons Co.
C. W. Thrash, with Lunkenheimer Co.
D. A. Vann, with The Texas Co.
Geo. Wrigley, with J. E. Serrine.
Dan Wallace, with Keever, Starch Co.
Fred H. White, with the Stafford Co.
J. Q. White, with Cotton Publishing Co.
Jno. R. White, with Corn Products Refining Co.
Chas. H. Warren, with The Draper Company.
R. W. Wilcox, with Bird, Wilcox Co.
Jno. S. Waters, with The Texas Co.
Willard Thompson, with The Texas Co.
B. R. Wofford, with Jenkins Bros. Co.

Geo. H. Wilson, with U. S. Bobbin & Shuttle Co.
Arthur Walsh, with Mason Machine Works.
D. Wiley, with Westinghouse Elec. & Mfg. Co.
C. W. Wilkinson, with Gen. Fire Ex. Co.
J. B. Waird, with General Elec. Co.
W. H. Wylie, with Gen. Electric Co.
Arthur Wringley, with Dixie Seal & Stamp Co.
L. L. Wolf, with Poe Hdw. & Supply Co.
E. S. White, with Hercules Truck Mfg. Co.
W. T. Williams, with Poe Hdw. & Supply Co.
D. M. Young, with Hopedale Mfg. Co.
Geo. Witherspoon, with Seydel Mfg. Co.
H. G. Welborn, with Douglas Co.
G. W. Walker, with Day Adjustable Bearing Co.
John Walsh, with Wm. Firth.
J. T. Westmoreland, with Spartan Compound Co.
A. S. Wattles, with L. R. Wattles & Co.
Harry Zayotti, with Ashworth Bros.

W. A. Reid of West Point, Ga., has accepted the position of superintendent of the Tifton (Ga.) Mills.

F. R. Daves, loom fixer in the Ivey Mill has purchased a Harley Davidson motorcycle with side car.

C. A. Sweet of Charlotte, N. C., has accepted the position of superintendent of the Woodstock Mills, Anniston, Ala.

All Silent Chains Look Alike

Without inspecting the details of construction it is hard to tell the different makes apart. There is none, however, possessing the Liner Joint of

Link-Belt Silent Chain



THE SUCCESS of the Link-Belt Silent Chain is due almost entirely to the superiority of its joint construction. The segmental liners or bushings, which are removable, extend across the entire width of the chain, thus doubling the bearing surface and halving the bearing pressure on the joint. The bushings (or liners) are case-hardened, and bear upon the case-hardened pin. The latter is free to, and does rotate with reference to the bushings and presents every particle of its surface for wear. As a result it wears uniformly, keeps round, and the chain maintains to the end its high initial efficiency, (98 2 per cent. on actual test).

Write for Link-Belt Silent Chain Data Book No. 125

LINK-BELT COMPANY

PHILADELPHIA CHICAGO INDIANAPOLIS

New York.....299 Broadway
Boston.....49 Federal Street
Pittsburgh.....1501-3 Park Bldg.
St. Louis, Cen. Nat'l Bank Bldg.
Montreal, Can.....John Millen & Sons, Ltd.
Buffalo.....698 Ellicott Square
Detroit.....911 Dime Bank Bldg.
Cleveland.....Rockefeller Bldg.
Birmingham.....General Mach Co.

CAROLINA, CLINCHFIELD & OHIO "The Clinchfield Route"

RAILWAY
and
Carolina, Clinchfield & Ohio Railway
of South Carolina.
EFFECTIVE AUGUST 9, 1915.
Eastern Standard Time

Southbound

Lv. Elkhorn City, Ky.....	* 3:00
Lv. Haysi, Va.....	3:37
Lv. Fremont, Va.....	4:10
Lv. Dante, Va.....	4:55 *8:30
Lv. St. Paul, Va.....	5:30 8:52
Lv. Speer's Ferry, Va.....	7:25 10:17
Lv. Johnson City, Tenn.....	9:30 11:45
Ar. Erwin, Tenn.....	*10:30 *12:25
Lv. Erwin, Tenn.....	*5:00 *12:35
Lv. Kona, N. C.....	7:13 2:04
Lv. Altapass, N. C.....	8:10 2:45
Lv. Marion, N. C.....	9:50 3:55
Lv. Bostic, N. C.....	11:33 4:57
Ar. Spartanburg, S. C.....	*1:30 *6:05

Northbound

Lv. Spartanburg, S. C.....	*4:50 *11:00
Lv. Bostic, N. C.....	6:09 12:10
Lv. Marion, N. C.....	7:05 1:05
Lv. Altapass, N. C.....	8:20 2:20
Lv. Kona, N. C.....	8:57 3:03
Ar. Erwin, Tenn.....	*10:30 *4:30
Lv. Erwin, Tenn.....	*7:45 *4:35
Lv. Johnson City, Tenn.....	8:30 5:15
Lv. Speer's Ferry, Va.....	10:35 7:02
Lv. St. Paul, Va.....	12:17 8:30
Lv. Dante, Va.....	12:40 8:50
Lv. Fremont, Va.....	1:25
Lv. Haysi, Va.....	1:55
Ar. Elkhorn City, Ky.....	*2:30

—Daily except Sunday.
A. M. light face type.
P. M. heavy face type.

Patrons are requested to apply to nearest agent for definite information, or to

CHAS. T. MANDEL,
Asst. Gen'l Pass. Agent.

J. J. CAMPION,
V.-Pres. and Traffic Mgr.,
John City, Tenn.

Long Distance Message From Governor Richard I. Manning, Opening the Southern Textile Exposition, Greenville, S. C., November 2, 1915.

I appreciate your efforts in such an undertaking and hope that it will endure to the lasting good of this commonwealth, and to the accomplishment of great things. The occasion will be of interest and bring about an understanding and experience which will strengthen our weak points. I wish I could be with you in the discussion of those matters that are of such importance to our people, but as I cannot be with you, and that you will know I prize the invitation, I speak my co-operation in an industry so important to the lives of every man, woman, and child of our State.

In this ambition and by these efforts will come great results. The efficiency and the education of trained minds as well as hands will make us better in competition, and this in turn will produce more money, encourage stronger efforts in our lives, and will in time build up a splendid citizenship and better develop manhood and womanhood.

I wish you Godspeed in your commendable endeavor.

Welcome Address on Behalf of the Manufacturers of South Carolina

(By Capt. E. A. Smyth.)

Gentlemen of the Southern Textile Association:

His Honor, Mayor Webb of Greenville, has asked me to supplement the address officially given by him as Mayor of Greenville, with a word of welcome as President of the Cotton Manufacturers' Association of South Carolina and as a life member of your Association. I gladly add a word of cordial welcome, and trust your meeting in Greenville will be most agreeable in every way, and that you will carry with you when you leave us pleasant and delightful recollections of the Pearl of the Piedmont.

Greenville appreciates very much the honor you have paid her in selecting this city in which to hold your meeting, and also for this great Textile Exposition now open here. Greenville is essentially a cotton mill town, and its wonderful growth during the past few years has been due largely to the foresight and liberality of its citizens who, from civic pride and with far-sighted judgement, have contributed large and small amounts to the establishment of so many mills around our suburbs. These subscriptions were not made in expectation of returns in dividends, but from a desire to aid in the building up of their home town. The fact that the pay-roll of these cotton mills amounts to three million dollars per annum has enabled Greenville to weather the financial storm of the past year with perfect comfort and absolute security. It is fitting that the first great textile exposition in the Southern States should be held in the center of the textile industry, and Greenville with a keen appreciation of this honor, welcomes you, and trusts that this visit is only one of several

American Cotton Manufacturers' Association Will Meet in Atlanta.

At a meeting of the Board of Governors of the American Cotton Manufacturers' Association held at Greenville, S. C., it was decided to hold the next annual meeting at Atlanta, Ga., early in April. The last ballot stood, Atlanta 10, Washington, 8.

Greenville, S. C.—The F. W. Poe Mfg. Co. has placed orders for something over a million flat steel heddles with which to equip a number of looms heretofore using cotton twine harness. The orders for the flat steel heddles were placed with the Steel Heddle Mfg. Co. of Philadelphia, Pa. through their Southern Agent, Hampton Smith, of Greenville, S. C.

Several scotchmen were discussing the domestic unhappiness of a mutual friend.

THIS IS WHY GARLAND HARNESSES NEVER VARY

The great care with which our loom harnesses are made, together with a rigid inspection during each one of the processes through which they go, produces harnesses not only of superior quality but harnesses the quality of which is always the same.

GARLAND MFG. CO.



Saco, Maine

"Aye," said one, "Jock McDonald a short time. When I was coortin' has a sair time wi' that wife o' his. I was coortin' twenty year." They do say they're aye quarrelin'." "And how did it turn out?" inquired a stranger in the party. "It serves him right," said another feelingly. "The puir feckless creature marrit after coortin' only year an' in that time I kenned what eight year. Man, indeed, he had nae wumman was an' so I didna marry." chance to ken the wumman in sic —Ex.

GRID BARS

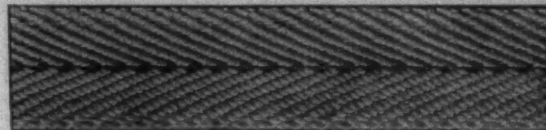
When in need of Grid Bars of any kind---adjustable or fixed---let us hear from you. 60 days free trial anywhere.

ATHERTON PIN GRID BAR CO.

Providence, R. I.

AMERICAN TEXTILE BANDING CO., Inc

Manufacturers of
Spindle Tape
And
Bandings



Third and Moore Street,

PHILADELPHIA, PA.

SCOTCH SIZE OR KLEISTER



TRADE MARK

This is an old preparation well known to the majority of Cotton Manufacturers, on account of the general satisfaction it has always given. A binder for both fine and coarse counts as it combines readily with any starches on the yarn. Manufacturers of exports and denims find it valuable, as it reduces shedding and loom waste to a minimum. Should use Raw Tallow or Soluble Tallow in addition. Write for formula.



TRADE MARK

ARABOL MANUFACTURING COMPANY

100 William Street, New York

CAMERON MacRAE Southern Sales Agent CHARLOTTE, N. C.

Rings, Spinning and Twister, Singles or Doubles

OF THE BEST MAKE

If you are changing to a larger or smaller ring we can furnish you RINGS WITH BASE EXPANDED OR CONTRACTED TO FIT YOUR OLD HOLDER.

Satisfaction Guaranteed. Write for Prices

Southern Spindle and Flyer Co.
CHARLOTTE, N. C.

W. H. Monty, Pres. & Treas. W. H. Hutchins, V.-Pres & Sec'y

PROPER LOCATIONS FOR MILLS.

United States Census figures show that since 1880 the consumption of cotton in mills of the cotton growing States has increased 1,502 per cent, as compared with an increase of only 98 per cent in all other States. In the twelve months ended August 31, 1914 Southern mills consumed 162,097 more bales of cotton than the mills of all other States. Three-fourths, or 9,000,000, of the total cotton spindles in the cotton growing States are tributary to Southern Railway tracks. Of the 200 knitting mills in the South over 125 are located along the Southern Railway. Nearly all the Southern woolen and silk mills are also on Southern Railway tracks.

There is a reason for this, and it is not difficult to understand.

The Southern Railway Lines enter and serve most completely those portions of the South where the textile industry is the greatest success, because there are found all the conditions which makes for successful manufacture—the proper transportation facilities, the ease with which the raw material and the needed fuel may be secured, the supply of good labor, the pure water, the low cost of power, and favorable local conditions.

Not only for textile plants but for all other industries the best advantages will be found in this territory.

If you have a plant to locate, let us take up with you the question of the proper location. Your plans will be held confidential. Our knowledge of conditions at various points and our experience in locating other mills and the time of our agents in making special investigations are at your service if desired.

M. V. RICHARDS, Industrial and Agricultural Commissioner,
Southern Railway,

Room 129,

Washington, D. C.

Want Department

Want Advertisements.

If you are needing men for any position or have second hand machinery, etc., to sell the want columns of the **Southern Textile Bulletin** afford the best medium for advertising the fact.

Advertisements placed with us reach all the mills and show results.

Employment Bureau.

The Employment Bureau is a feature of the **Southern Textile Bulletin** and we have better facilities for placing men in Southern mills than any other journal.

The cost of joining our employment bureau is only \$1.00 and there is no other cost unless a position is secured, in which case a reasonable free is charged.

We do not guarantee to place every man who joins our employment bureau, but we do give them the best service of any employment bureau connected with the Southern textile industry.

Farm For Sale.

For Sale—100 acres well improved farm, one mile from 45,000 spindle cotton mill, Goldville, S. C. Good schools and churches. New 4-room dwelling. New barn. Two tenement houses, and necessary outhouses. 75 acres are under cultivation. Ideal farm in many respects. Write for further particulars and price to Farm, care Southern Textile Bulletin.

MACHINERY FOR SALE.

7 Whittin Twistors in good running order. Wet and dry twist 2-inch rings and Whittin gravity spindle. 6 Whittin reels in good condition. Could ship all the above within one week's notice. Owing to a change in our layout we have the above for sale. In good shape.

Kindley Cotton Mill,

Mt. Pleasant, N. C.

FOR SALE

20 Lowell Machine Shop Spoolers, for all practicable purposes, as good as new. These Spoolers will be sold at a bargain.

Also, about 10,000 4 1/2 x 6-inch Metal Head Spools, all in good condition. Will be sold cheap. Parties interested write

JACKSON FIBRE CO., Bemis, Tenn.

Carder and Spinner Wanted

Want a carder and spinner for a small mill. Must have had experience on carded hosiery yarns. Must be young, sober and energetic. State experience and where you have worked. Address "Hosiery" care Southern Textile Bulletin.

WANT position as superintendent of either yarn or weave mill or carder in large mill. Now employed, but want larger job. Good experience and references. Address No. 1240.

WANTED—Position of overseer of weaving, preferably Drapers, at \$4.00 or more per day. 19 years in the weave room. 36 years of age. Married. Total abstainer. Now employed as overseer. Pusher for production, quality and low costs. Present salary inadequate for large growing family. Address No. 1241.

WANT position as superintendent of medium sized mill or overseer spinning in large mill. Have had long practical experience and can furnish excellent references. Address No. 1242.

WANT position as superintendent of weaving mill. Experienced on both white and colored goods. Familiar with all departments and am now employed as superintendent. Address No. 1243.

WANT position as Supt. or manager. Now employed as Supt. but in undesirable location and prefer to change. Long experience and fine references. Address No. 1244.

WANT position as superintendent of either plain weaving or yarn mill. Am all-round practical mill man,

but especially strong on carding. Have made a close study of waste problems and am in position to more than save my salary in the waste account. Let me investigate your waste conditions. Correspondence confidential. Address No. 1245.

WANT position as overseer of weaving. Draper or plain looms. Am experienced on drills, duck, osnaburg and sheetings. Can give good references as to character, and ability to get the required production. Address No. 1246.

WANT position as overseer of twisting, spooling and winding. Age 30. Married. Strictly sober. Can give present employers as reference. Address No. 1247.

WANT position as overseer of carding. Now employed, but want larger job. Special experience on combers and fine work. Satisfactory references. Address No. 1248.

WANT position as overseer spinning in small mill or second hand in large mill. 39 years of age, with 27 years experience in spinning. Prefer mill in a small place. Good references. Address No. 1249.

WANT position as overseer of spinning. Reason for changing to better myself. Now employed. Address No. 1250.

WANT position as superintendent of medium sized mill or overseer of spinning. Eight years experience as overseer. Married. 42 years of age. Good references. Can change on short notice. Address No. 1251.

WANT position as superintendent. Have been superintendent of some of the most prosperous mills in the South and have long experience on a wide variety of goods. Fine references. Address No. 1252.

WANT position as superintendent. Have had 18 years experience as superintendent and held last position 10 years. Can furnish best of references. Address No. 1253.

WANT position as superintendent. Now employed but for good reason prefer to change. Am a good manager of help and have always made good. Satisfactory references. Address No. 1254.

WANT position as superintendent. Now hold traveling position but wish to return to mill. Long experience as superintendent and always made good. Fine references from former employers. Address No. 1255.

WANT position as superintendent or overseer of carding or spinning. Can furnish present and former employers as references. Only reason for changing is that I want larger job. Address No. 1256.

WANT position as overseer of weaving. Have had long experience and am now employed, but for good reasons prefer to change. Fine references. Address No. 1257.

PATENTS

Trade Marks and Copyrights

Send your business direct to Washington. Saves time and insures better service.

Personal Attention Guaranteed

30 Years Active Service

SIGGERS & SIGGERS

Patent Lawyers

Suite 34 N. U. Washington, D. C.

WANT position as manager or superintendent. Would take stock in right mill. Long experience and have always made money for mills I have run. Satisfactory references. Address No. 1258.

WANT position as superintendent or overseer of carding and spinning. Long experience and am now employed. Can furnish satisfactory references. Address No. 1259.

WANT position as overseer of weaving at not less than \$3.00 per day. Now employed and give satisfaction but prefer different kind of job. Address No. 1260.

WANT position as overseer of carding or spinning or both. Have had long experience and can furnish best of references both as to character and ability. Address No. 1261.

WANT position as carder or spinner. Now employed at night and give satisfaction but want day job. Can furnish good references. Address No. 1262.

A THOROUGHLY COMPETENT AND ENERGETIC YOUNG SUPERINTENDENT OF 30 YEARS WANTS larger position. Am practical and capable of giving good service on either plain, fancy or colored goods. Will be pleased to submit references and correspond with any good size mill needing a man. Address No. 1263.

WANT position as engineer and master mechanic. 15 years experience in engine room and shop. Am employed at present but desire to change. Good references. Address No. 1264.

WANT position as superintendent of large mill. Now employed in good size mill and give entire satisfaction but want larger job and am competent to handle one. Address No. 1265.

WANT position as superintendent of yarn mill. Have had long experience and can furnish best of references from former employers. Address No. 1266.

POSITION as superintendent wanted by a practical mill man. Have had 14 years experience as superintendent and thoroughly understand all details connected with the manufacturing of cotton goods. Can give A-1 references as to ability and character. Address No. 1267.

Around the Exhibition Hall.

(Continued from Page 26).

of posts showing several forms of wiring of electric devices. Mr. Huntington was in charge.

Scott & Williams of Boston, had in operation four machines on hosiery and also an underwear machine. This exhibit attracted much attention. They showed hosiery made on their machines. F. W. Richardson, P. J. Smith, J. M. Sams were in charge.

The **Litchfield Shuttle Co.** had a very elaborate and beautiful display of shuttles and shuttle parts as they make all of their shuttle parts. They were featuring a new rotary tenton in connection with a hand threader. Frank C. Litchfield, Geo. A. Litchfield and Frank A. Chase were in charge.

The **Monroe Calculating Machine Co.** had a display of their machines in several styles. D. A. Henning, Jr., was in charge.

The **Remington Typewriter Co.** had a display of their latest model machines showing several new attachments. R. W. Castles was in charge.

The **Weston Electrical Instrument Co.** had a large display of Weston meters and electric measuring devices. L. C. Nichols was in charge.

The **Textile Finishing Machinery Co.**, of Providence, R. I., showed Durant's Patent Straight Line Cloth Grinder and numerous photographs of machines. W. S. Stelling was in charge.

Stuart W. Cramer, of Charlotte, occupied the entire end of this section with the Cramer System of Air Conditioning. They showed high duty air conditioning heads, improved copper spray heads, fan type atomizers, electrical and mechanical devices for regulating the temperature and humidity in cotton mills. Recording charts showed the accuracy that had been obtained in regulation in mills. A very interesting machine was a device designed to determine the effect of humidity on spinning band pull. Stuart W. Cramer, W. H. Porcher, H. B. Rodgers, C. C. Dawson and R. I. Dalton were present.

The **Suspension Bearing Co.**, of Spartanburg, S. C., roller bearing and ball bearings in operation. J. A. Patch was in charge.

The **Day Adjustable Bearing Co.**, showed a line of adjustable bearings for looms. L. W. Stansell and G. W. Walker were in charge.

The **B. F. Goodrich Co.** exhibited their Pinnacle Friction Surface Belt. This belt is made of cotton duck treated with rubber and is specially adapted for a great many drives in cotton mill work. E. K. O'Brien and D. L. Darnell were in charge.

The **States Sectional Grate Bars** occupied the last booth in this section. L. A. States was in charge.

Fourth Rear Section.

Entering the fourth rear section and turning to the right we found an exhibit of veneer packing cases by the **Utility Mfg. Co.**, of Goldsboro, N. C. J. L. Borden was in charge.

The **Atherton Pin Grid Bar Co.** showed a model grid bar. They featured pin grid bars with an adjusting attachment and a knife bar with double edge so that it can be reversed when one edge wears dull.

L. D. Armstrong was in charge.

National Aniline & Chemical Co. of New York, exhibited featured American-made aniline colors. These colors were arranged in glass jars on pyramid stands. They showed hosiery, cotton yarn and woolen yarn, dyed with their colors and photographs of their works. Henry Metz and A. L. Mullaby were in charge.

The **Harrison Safety Boiler Works** featured the Cochran V Notch recording meter and Cochran multiple safety exhaust outlet valve. J. E. Weinhold of Charlotte, was in charge.

The **S. C. Regulator Co.** showed a boiler feed regulator and pump governor. J. E. Meinhold was in charge.

Vulcan Soot Cleaner Co. exhibited a small model of rear-end cleaner for return tubular boilers.

The exhibit of the **Pullman Automatic Ventilator Co.** was delayed in transit and had not been installed on Tuesday.

The **General Fireproofing Co.** showed the application of their fireproof and waterproof products. A. L. Aronstan and J. R. Lawrence, Jr., were in charge.

The exhibit of the **A. W. Harris Oil Co.** was one of the most striking in the Exposition. The background was a large red sign and their oils and greases were arranged on shelves. W. M. Kendrick was in charge.

The **Economy Fuse & Mfg. Co.**, of Chicago, Ill., showed a full line of electric fuses.

Foster Machine Co., of Westfield, Mass., had in operation a No. 30 winder, a feature of this machine was the fact that the tapes of the cone changed as the cone filled. The machine on exhibit was to be sent to the Textile Department of the A. & M. College at Raleigh, N. C. E. T. Foster, of Westfield, had charge of the exhibit.

Wm. Firth, of Boston, Mass., showed one of a dustless card stripper which have come into general use in the South. John Walsh was in charge. John Hill, Southern agent, of Atlanta, was present.

The **Spartan Compound Co.**, of Greenville, S. C., exhibited a beautiful line of goods, which were finished with their sizing. J. T. Westmoreland was in charge.

The last space on the second floor was occupied by **Howard Bros.**, of Worcester, Mass., who showed two card clothing machines in operation, one on cylinder clothing and the other on doffer clothing. They also showed a cross section made of a card. Those in charge were Herbert Midgley, E. M. Terryberry, Hal Crossley and A. Kasperon.

The **N. Y. & N. J. Lubricant Co.** had a very attractively arranged booth, showing their line of well-known "Non-Fulid Oil" and other lubricants. J. H. Bennis, W. F. Kimball, and Guy Melchor, Louis Thomason and Mr. Smith were in charge.

Passage Way.

Coming down again to the second floor we entered the passage-way, built to connect the main building with the annex. Along the sides of the passage-way were advertising signs of Victor Shaw Ring Traveler Co., Piedmont & Northern Rail-

way, Jones & Laughlin Steel Co., U. S. Gutta Percha Paint Co., L. R. Wattles & Co., Stuart W. Cramer, Southern Novelty Co., Guion Starch Co., Alexander Bros., J. F. & W. H. Warren Co., Comptometer, Douglas Co., Mason Machine Works, Southern Textile Bulletin and Clark Publishing Co.

The **Textile Industrial Institute**, of Spartanburg, S. C., showed a loom in operation. They also had photographs of their buildings. President Camack was in charge.

The **Industrial Department of the Y. M. C. A.** showed a very interesting set of signs used in connection with their work. Dr. E. H. T. Foster was in charge.

The remaining booths were those of cotton goods exhibited by the mills. The exhibits will be covered in our issue of next week.

Points on Fine Yarn Manufacture
(Continued from Page 10.)

these slugs, since small particles still adhere to the clearer and drop into the work. When the clearers are cleaned they should be cleaned thoroughly for best results. In wiping off creels, thread boards and roller beams, the brush or waste used for cleaning must not be permitted to touch the twisting thread or roving, else innumerable slugs will be caught up and twisted into the product. This is especially true in cleaning the front of the spinning frames. In spite of due care and watchfulness there remains in the produce numerous slubs and slugs, or bunches, which must be removed at the winders and spoolers. The guides at this point must be closely and carefully set, and require frequent resetting in order to do efficient work.

It has been said that we should not attempt to make our spoolers do the work of our cards, which is true in a sense; but I pity the man who opens up his spooler or winder guides and depends on the cards to take out the imperfections caused. On later processes, I have found the spooler and winder guides very effective as eliminators of trouble. In particular cases, where warps free from slubs are required, it is customary for the tender to stop the machine and break the slubs out as they are detected.

In all cases where high-grade yarns for twisting are required, it is desirable that weaver's knots be tied in winding. There is some difficulty at first in starting this system, but the help soon becomes very skillful and the results more than repay the time and trouble of adopting the system.

A final word on a point which does not usually receive the attention its relative importance demands,—and that is air conditioning and control. Too often this equipment is treated as if it was not necessary. Yet I know of no one particular point in the manufacture of a fine yarn that will so quickly give a return on the time and trouble spent in getting an intelligent grasp of its relation to our problems than that of proper atmospheric conditions. To determine just what those proper conditions are requires some thought and perhaps some experiments, but when

**Commonwealth
Hotel**

INCORPORATED

Opposite State House, Boston, Mass.



Offers rooms with hot and cold water for \$1, which includes free use of public shower baths.

NOTHING TO EQUAL THIS IN NEW ENGLAND

Rooms with private baths for \$1.50 per day; suites of two rooms and bath for \$4.00 per day.

ABSOLUTELY FIREPROOF

Temperance House

Send for Booklet

STORER F. CRAFTS, Gen. Mgr.

once determined and maintained we have a very noticeable improvement and superior product.

When the last word is said, it remains that in the manufacture of fine yarns, or high grade yarns, we must consider very carefully every process and condition in its proper relation to all others, and when we do no doubt we shall find that considerable improvement in our product will have been accomplished.

Much might be said regarding the details of speeds, drafts, twists and adjustments of the machines at each process for the different kinds of cotton and to meet unusual conditions, but it seems hardly possible to treat those points intelligently in this paper, without considerable sacrifice of brevity. Some latitude is permissible, of course, in those details, but for best results we must stay within fairly well understood limits, and use our best judgment to determine the exact arrangement best suited to the particular stock and conditions. Although it is very often done, it seems to me unwise to go to the extreme in any one direction, as almost invariably the result of such a course will prove detrimental in the long run.

Personal Items

H. G. Welborn, formerly president of the Hampton Cotton Mills, Columbia, S. C., has accepted the position of special textile representative of Douglas & Co., starches, and will be located at Boston, Mass.

Harry Scrivens, Southern representative of the Philadelphia Belting Co., was present at the Exposition. Mr. Scrivens never misses a meeting of the Southern Textile Association.

W. H. Connor has resigned as second hand in spinning at the Southside Mills, Winston-Salem, N. C., to become overseer of spinning at the Cohannet Mills, Fingerville, S. C.

CLASSIFIED LIST OF ADVERTISERS

AUTOMATIC MAGAZINES—

Hopedale Mfg. Co.

BALING PRESSES—Boomer and Boschert Press Co.
Saco-Lowell Shops.**BANDING—**

American Textile Banding Co. Inc.

BEAMERS—T. C. Entwistle Co.
Saco-Lowell Shops.**BELTING—**American Supply Co.
Graton & Knight Mfg. Co.
Link Belt Co.
Philadelphia Belting Co.**BOBBINS AND SPOOLS—**American Supply Co.
Draper Co.**CARD CLOTHING—**Ashworth Bros.
Jos. Sykes Bros.
Saco-Lowell Shops.**CARDS—**T. C. Entwistle Co.
Saco-Lowell Shops.**CARD GRINDERS—**

T. C. Entwistle Co.

CLOTH ROOM MACHINERY—

Saco-Lowell Shops.

COMPRESSORS (AIR)—

General Electric Company.

COMMISSION MERCHANTS—

Richard A. Blythe.

DOBBIES—Crompton & Knowles Loom Wks.
The Stafford Company.**DOFFING BOXES—**

Diamond State Fibre Co.

DRAWING FRAMES—

Saco-Lowell Shops.

DRAWING HOLLS—

Metallic Drawing Roll Company.

DRINKING FOUNTAINS—

Puro Sanitary Drinking Fountain Co.

DROP WIRES—

Hopedale Mfg. Co.

DYESTUFFS AND CHEMICALS—American Dyewood Co.
Arabol Mfg. Co.
Bosson and Lane.
Cassela Color Co.
John P. Marston.
Faberwerke-Hoechst Co.
A. Klipstein & Co.
Seydel Manufacturing Co.
So. Dyestuffs & Chemical Co.**DYEING, DRYING, BLEACHING
AND FINISHING MACHINERY—**Philadelphia Tex. Machinery Co.
C. G. Sargents Sons Corp.
Saco-Lowell Shops.**DYERS—**

Franklin Process Co.

ELECTRICAL MACHINERY—Westinghouse Electric & Mfg. Co.
General Electric Co.**FIRE HOSE AND FITTINGS—**

American Supply Co.

FLYER PRESSERS—

Southern Spindle & Flyer Co.

GEARS (SILENT)—

General Electric Company.

HEDDLES—

Steel Heddle Mfg. Co.

HUMIDIFIERS—American Moistening Co.
Stuart W. Cramer.
G. M. Parks Co.**HUMIDIFYING MACHINES—**

C. G. Sargents Sons Corp.

LOOMS—Crompton & Knowles Loom Works.
Draper Company.
Saco-Lowell Shops.
Stafford Company.**LOOM HARNESS, REEDS AND
PICKERS—**American Supply Co.
Garland Mfg. Co.
Graton & Knight Mfg. Co.**LUBRICANTS—**

Albany Lubricating Co.

LUG STRAPS—Graton & Knight Mfg. Co.
M. M. Lahue & Co.**METERS—**General Electric Company.
Westinghouse Electric & Mfg. Co.**MILL CRAYONS—**

American Supply Co.

MILL SUPPLIES—American Supply Co.
Connecticut Mill Supply Co.
Diamond State Fiber Co.**OVERHAULERS—**

Southern Spindle & Flyer Co.

PICKERS AND LAPPERS—

Saco-Lowell Shops.

PREPARATORY MACHINERY—

Saco-Lowell Shops.

PRESSES

Boomer and Boschert Press Co.

PUMPS—

Stuart W. Cramer.

RAILROADS—C. C. & O. Railway.
Seaboard Air Line.
Southern Railway.**RING SPINNING FRAMES—**

Saco-Lowell Shops.

RING TRAVELERS—American Supply Co.
U. S. Ring Traveler Co.**ROLLS—**American Supply Co.
Metallic Drawing Roll Co.
Saco-Lowell Shops.
Southern Spindle & Flyer Co.**ROVING CANS—**

Diamond State Fibre Co.

ROVING MACHINERY—

Saco-Lowell Shops.

SADDLES—Dixon Lubricating Saddle Co.
Graphite Lubricating Co.**SEPARATORS—**

Draper Company.

SHUTTLES—

Shamhow Shuttle Co.

SIZING COMPOUND—Arabol Mfg. Co.
Bosson & Lane.
John P. Marston.
A. Klipstein & Co.
Seydel Mfg. Co.
So. Dyestuff & Chemical Co.**SLASHERS—**

Saco-Lowell Shops.

SOAPS—

Seydel Mfg. Co.

SOFTENERS—COTTON—Arabol Mfg. Co.
Bosson & Lane.
New Brunswick Chemical Co.
A. Klipstein & Co.
Seydel Mfg. Co.
So. Dyestuff & Chemical Co.**SPINDLES—**Chapman Gravity Spindle Co.
Draper Company.
Dixie Spindle & Flyer Co.
Southern Spindle & Flyer Co.**SPINNING RINGS—**Connecticut Mill Supply Co.
Draper Company.
Whitinsville Spinning Ring Co.
Pawtucket Spinning Ring Co.**SPOOLERS—**Draper Co.
Saco-Lowell Shops.**STARCH—**Corn Products Refining Co.
Keever Starch Co.**TEMPLES—**Draper Company.
Hopedale Mfg. Co.**TURBINES—**General Electric Company.
Westinghouse Electric & Mfg. Co.**TWISTERS—**Draper Company.
Saco-Lowell Shops.**WARP STOP MOTIONS—**Crompton & Knowles Loom Works.
Draper Company.
Hopedale Mfg. Co.
The Stafford Co.**WEIGHTING COMPOUNDS—**Arabol Mfg. Co.
Bosson & Lane.
Faberwerke-Hoechst Co.
John P. Marston.
A. Klipstein & Co.
Seydel Mfg. Co.
So. Dyestuff & Chemical Co.**WELDING OUTFITS—**

General Electric Company.

WARPERS—T. C. Entwistle Co.
Draper Company.**WILLOWS—**Saco-Lowell Shops.
C. G. Sargents Sons Co.**WINDERS—**

Saco-Lowell Shops.

Joseph Sykes Brothers,

Huddersfield,
England

Card Clothing Manufacturers

HARDENED AND TEMPERED STEEL WIRE PLOW GROUND CARD CLOTHING

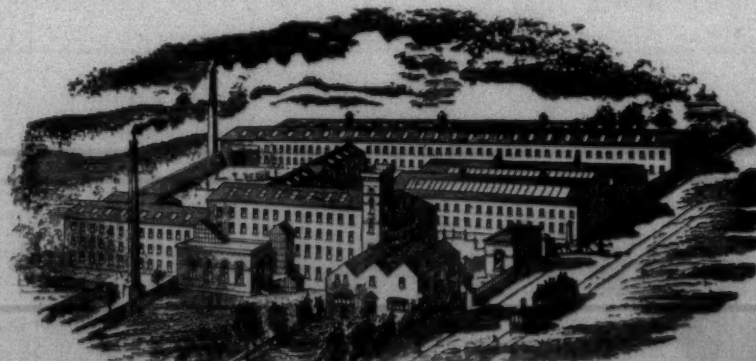
Revolving Top Flats re-clothed. Licker-ins re-wound. Burnisher and Stripper Fillets. Dronsfield's Grinder Rolls. Emery Fillets.
All regular sizes of Card Clothing always in stock and shipped same day order is received.

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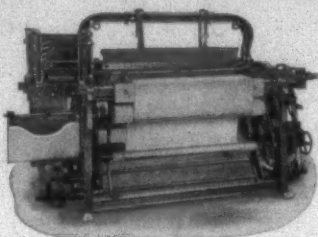
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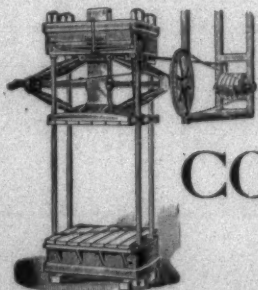
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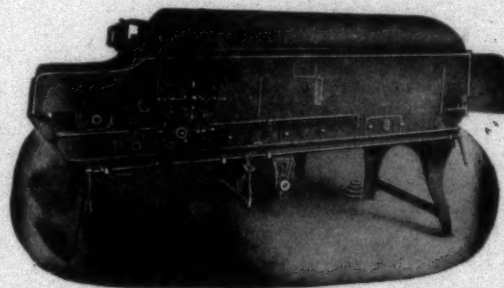
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